he Mining Journal,

RAILWAY

FORMING A COMPLETE RECORD OF THE PROCEEDINGS OF ALL PUBLIC COMPANIES.

No. 1359.—Vol. XXXI.

LONDON, SATURDAY, SEPTEMBER 7, 1861.

STAMPED.....SIXPENCE. UNSTAMPED..FIVEPENCE.

M. R. JAMES CROFTS, SHAREBROKER,
Mr. Chorrs is a BUYER of shares in the following mines (cash on receipt of transfer,
Mr. Chorrs is a BUYER of shares in the following mines (cash on receipt of transfer,
Mr. Chorrs is a BULER of Shares):—Brynford Hall, Great Martha, East Caradon,
Mr. Chorrs is a SELLER of 23 Resewarme and Herland, at 1s. 6d, per share net.
The section of the late Lamheroce Wheal Maria Mine, now leased by the EAST WHEAL
MARTHA COMPANY, in 6000 shares, has excellent chances of success. Mr. Chorrs
having acted as secretary to the Lamheroce for nearly ten years is acquainted with the
merits of the new mine, and will answer conquiries from the investing public.
Mr. Holders of mining shares DIFFICULT OF SALE in the OPEN MAIRET may
hear of purchasers, and also parties in ARREAR OF CALLS, or sued by merchants,
may learn their true legal position and be advised how to act, by applying to Mr. Chorrs.
SPECIAL BUSINESS in EAST WHEAL MARTHA (LIMITED) paid-up shares,
210s. each.

** Alberal price will be given for 5 Brynford Hall.

*** MR. JAMES LANE NO. 44 THERADNEEDLE STREET

MR. JAMES LANE, No. 44, THREADNEEDLE STREET,
LONDON, E.C.

JAMES LANE has FOR SALE, at nett prices:—10 Aired Consols, £1; 5 Billins,
£114; 25 Carn Camborne, 27s. 6d.; 30 Crebor, 11s.; 20 Devon Union; 50 Dale, 15s.;
10 East Caradon, £28½; 10 East Treskerby, 25s.; 10 East Russell, £356; 50 Great Wheal
Martha, 57s. 6d.; 5 Gonamena, £294; 25 Great Retailack, 25s.; 3 Herodsfoot, £35;
25 Lady Bertha, 17s.; 5 Ludcott, £294; 20 Lady Eliza, 7s. 6d.; 2 Mary Ann, £10;
10 Marke Valley, £10¾; 20 North Hallenbeagle, 21s.; 10 North Downs, £5¾; 20
North Nant-y-Mwyn, 5s.; 2 Pant-y-buarth, £6; 20 Penhale Moor, £14; 50 Port
Pallilp, 21s.; 5 Rosewarne Consols, 23s.; 20 South Condurrow, 9s. 6d.; 3 Trelawny,
£144; 2 West Caradon, £38; 30 Wheal Moyle, £2; 1 West Rose Down, £21; 5 Wheal
Anne, 25s.; 25 Ribden, 5s. 6d.; 20 Sortridge, 11s. 6d.; and 5 Trumpet United, 12s.;

BUYER of Wheal Wrey, East Phomix, and Great Martha.

PETER WATSON, ENGLISH AND FOREIGN STOCK, SHARE, AND MINING OFFICES.
79, OLD BROAD STREET, LONDON, E.C. 5
Telegraphic messages to Buy or Sell Mine Shares punctually attended to.

R. W. LELEAN, MINE SHAREBROKER, 11, ROYAL EXCHANGE, LONDON, E.C.

MR. THOMAS SPARGO, SHAREBROKER, 224 and 225, GRESHAM HOUSE, OLD BROAD STREET, LONDON, E.C. Commission, 2½ per cent.

MR. E. GOMPERS, MINING OFFICES, 3, CROWN CHAMBERS, THREADNEEDLE STREET, LONDON, E.C. BUSINESS TRANSACTED in BRITISH and FOREIGN STOCKS and SHARES Terms, 1½ per cent.—Bankers: London and Westminster Bank. MINING OFFICES,

Calstock, 12s. 6d. (10s. c paid). Crelake, £3\(\frac{2}{6}\). Crelake, £3\(\frac{2}{6}\). East Rusself, £3\(\frac{2}{6}\). East Devon Com., 40s. East Grenville, 41s. East Care Brea, £3\(\frac{2}{6}\). Marke Valley. Providence.

Orders per post or telegram promptly atte ember 6, 1861. Bankers: Bank of London.

Terms, 1½ per cent.—Bankers: London and Westminster Bank.

[R. T. ROSEWARNE, 75, OLD BROAD STREET, LONDON, E.C., has FOR SALE:—reh Tor & Vitifer, 40s. Gawton, 4s. St. Lubyn,£10. Great Wh. Martha, 41s 6d Hingston, £3½. St. Lady Bertha, 17s. Hard Bank, £3½. St. Russell, £3½s. North Tenserby, £24. North Minera, 27s. 6d. Wheal Morje, 35s. Wheal Devon Con., 40s. Sortridge, 12s. North Frances. Sortridge, 12s. North Frances. Wheal Mary Ann. Therovit. Tolvidden.

MR. R. H. M. JACKMAN, MINING AND SHAREBROKER MR. R. H. M. JACKMAN, MINING AND SHARED,
2, ADAM'S COURT, OLD BROAD STREET, TRANSACTS BUS
VERY DESCRIPTION of SHARES, at closest prices nett, or on commission;
sing a dealer buys and sells only on orders confided to him.
SHARES FOR SALE, free of any commission;
BHARES FOR SALE, free of any commission;
10 Ladcott, £3½.
10 Kelly Brsy, 18s.
5 Alfred Conso
30 Wheat Wrey, 4s. 6d.
50 Mcliand, 1s. 6d.
40 Unity, 22s.
8ept. 6, 1861.
Bankers: London and Westminster, Lothbury.

MR. JAMES HUME, SHAREBROKER, 74, OLD BROAD "Mining Share Monitor," published monthly, contains valuable undest dividend and progressive mines. Free for 6d., or 6s. per a talists by letter or personally. Bankers: London Joint-Stock Bank.

MESSRS. R. HORLEY AND CO., SWORN STOCK, SHARE, and MINING BROKERS, 4. ORNHILL, E.C. (late of 2, Royal Exchange-build continue to TRANSACT EVERY DESCRIPTION OF MINING BUSINESS of in a position to obtain reliable information respecting all dividend and pro

mines. -Messrs. Horger and Co. publish a Weekly Mining List, with the closing ednesday, and will be most happy to forward the same (gratis) on appli

AR. GEORGE BATTERS, 5, COWPER'S COURT, BIRCHIN LANE, DEALER IN BRITISH MINING SHARES and OTHEE SECURITIES. It. BATTERS, from long experience and intimate acquaintance with all Mining Stocks, advise as to investment of capital, at closest market prices, and has made a selection Dividend paying and sound Progressive Stocks into which he can with confidence ommend investments at present depressed prices. The favourable turn in the market metals, and the reduction in the Bank's rate of interest, would point to prices having in their lowest for the present.

recommend investments at present depressed prices. The involvance that it is prices having for metals, and the reduction in the Bank's rate of interest, would point to prices having seen their lowest for the present.

Mr. Batters is a BUYER of Great Wheal Marths, East Carn Brea, North Minern, South Carn Brea, Brynfird Hall, Cook's Kitchen, Wheal Unity, Great Retailack, East Carndon, Marke Valley, and Wheal Edward.—And is a SELLER of 10 Wheal Ludcott, 234; 25 Wheal Grenville, 34s.; 20 Wheal Trelawny, £14: 100 Wheal Ludcott, 5 Stray Park, £234; 2 South Frances, £1224; 2 Providence, £41; 10 East Carn Brea, £44; 40 East Grenville, 41s.; 75 Great Wheal Martha; 20 Marke Valley, £10½; 50 Merlinn, 20s.; 100 Lady Bertha, 17s. 6d.; 5 Cook's Kitchen, £30½; 2 Carndon Consols, £9½; and 60 North Minera, 27s. 6d.

OHN GLEDHILL AND CO., MINE AGENTS AND SHAREBROKER, No. 4, ROYAL EXCHANGE BUILDINGS, LONDON, E.C. (Established 14 years), has FOR SHAREBROKERS, MINING OFFICES, CORN EXCHANGE, LEEDS, 19 OFFICES, CORN EXCHANGE, LEEDS, 19 OFFICES, CORN

cris of mining shares difficult of sale may find purchasers through Mr. Budgs. L Daily lists of prices forwarded on application.

FIFTEEN to TWENTY, and even TWENTY-FIVE PER CENT. PER ANNUM upon current value of shares, in CORNISH TIN and COPPER MINES. upon current value of shares, in CORNISH TIN and COPPER MINES.

Dividends payable two-monthly or quarterly.

MESSRS. TREDINNICK AND CO., MINING ENGINEERS, SEND their SELECTED LIST OF SOUND PROGRESSIVE AND DIVIBEND SHARES upon the receipt of a Fee of One Guinea.

Review of Cornish and Devon Mining Enterprise, 5s. per copy.

Maps per post of the Buller and Basset, Great Vor, Alfred Consols, the Providence and Marzare Districts, 2s. 6d. each.

Cornish Mines, well selected, pay better than any other description of securities, are free from risks, and entail less responsibilities than banks and other joint-stock commission of \$2\per\$ per cent.

Money advanced at 10 per cent. annually, for short or long periods, upon approved lining Shares.—78, Lombard-street, London, E.C.

BRITISH AND FOREIGN STOCK, RAILWAY, AND MINING SHARES BOUGHT AND SOLD. A considerable amount of money is locked up in mining shares not prominently before the public, and consequently difficult of sale. Massrs. FULLER AND CO., 28, CHANGE ALLEY, CORNHILL, LONDON, invite the bioless of sace stock to communicate with them, having channels for the purchase and sale of shares of every description, independent of the mining market. POR SPECIAL SALE:—Messrs. FULLER and Co. have £6500 worth of shares on many paying regular dividends of from 12½ to 15 per cent. Also, £7500 worth of pressive shares, upon which from 200 to 300 per cent. profit may be realised in a few manths, and periocity free from risk. Full particulars may be had.

Bankers: Bank of England.

G E O R G E M O O R E, I CROWN COURT, THREADNEEDLE STREET.

In any business that George Moore is favoured with, in which he is the buyer, he will give CASH ON RECEIPT OF TRANSFER.

MR. T. P. THOMAS, MINING AGENT AND GENURAL.

AMES HERRON has FOR SALE the following SHARES, at the prices quoted, and FREE OF COMMISSION:—

20 Alfred Consols, 18s. 9d. 2 Gr. Fortune, £12 15s. 20 Sortridge Cons., 11s 6d. 30 Angarrack, 8s. 9d. 10 Hings. Down, £3 5s. 2 St. Day, 9s. 6d. 25 St. Day, 9s. 6d. 27 St. Day, 9s. 6d. 27 St. Day, 9s. 6d. 28 Sortridge Cons., 11s 6d. 30 Sortridge Cons., 11s 6d. 30 Sortridge Cons., 11s 6d. 30 St. Day, 9s. 6d. 28 Sortridge Cons., 11s 6d. 30 DN has FOR SALE the fol
and FREE OF COMMISSION:—
dd. 2 Gr. Fortune, £12 15s.
50 Great Retailack, 25s. 9d.
10 Hings. Down, £3 5s.
2 Herodsfoot, £365%.
5 Herward Utd., £10 18 9
1 Kitty (Lelant), £7 18s 6d
20 Kelly Bray, 18s. 9d.
40 Lady Bertha, 16s. 9d.
40 Lady Bertha, £12 18s. 9d.
10 Ludoott, £3 5s.
5 Marke Valley, £10¼.
20 Merilyn, 12s.
100 Molland, 11d.
2 Mary Ann, £9 17s. 6d.
20 North Minera.
10d- 1 North Downs, £5½.
5 Morth Basset, £5 8s 9d
1 North Downs, £5½.
50 North Rows, £23½.
50 North Rhine, 7s. 6d.
20 Nonth-Crofty, £5 5s.
4. 2 North Roskers, £17%.
40 New Frances, 11s. 6d.
41 North Roskers, £17%.
41 North Roskers, £17%.
42 North Roskers, £17%.
43 North Roskers, £17%.
44 North Roskers, £17%.
45 ON Torth Roskers, £17%.
46 North Roskers, £17%.
47 North Roskers, £17%.
48 North Roskers, £17%.
49 North Roskers, £17%.
40 North Roskers, £17%.
41 North Buller (an offer wanted).
41 North Gold Tolgus.
42 Okel Tor, 21s. 6d.

JAMES HERRON
the prices quoted, and Fi
20 Aifred Consols, 18a, 9d,
30 Angarrack, 8a, 9d,
50 Ben Accord.
1 Bryn Gwion, £23½,
5 Billins, £17½,
1 Brynford Hall, £22,
35 Buller and Basset,
2 Carn Brea, £72,
2 Cobre, £37½,
40 Cefn Clicen, 14s, 6d,
20 Camborne Vean, 48s, 9d,
40 Carn Camborne,
5 Caradon Cons., £7¼,
1 Cargoll, £15½,
50 Crockhaven,
5 Calvadnack, £3%,
2 Cook's Kit., £30½,
20 Cuddra, 37s, 9d, (including call),
20 Crelake,
90 Central Minera (an offer wanted),
3 belefaced

20 Central Minera (an offer wanted).
30 Dale, 15s. 9d.
20 Deep Level, 12s. 6d.
40 Drake Walls, 17s. 9d.
1 Devon Great Cons., £355
10 East Rossell, £3 10s.
5 East Carn Brea, £814.
30 East Grenville, 40s.
5 E. Caradon, £28 5s.
20 English and Australian Copper, £3 10s. 9d.
40 East Wheal Martha, 5s.
20 East Kongsberg (fully paid up £5), 37s. 6d.
20 East Rossewarne.
30 East Wh. Martha (fully paid up).

30 East Wh. Martin (raily paid up).
2 East Banset, £85.
5 Great S. Tolgus, £4 4s.
1 Grambler, £10 18s. 9d.
15 Great Alfred, 8s. 9d.
30 Great Moelwyn (£110s. paid), 16s. 6d.
15 Gonamena, £2.
50 Great Vor.
50 GE Northern Counter 20s.

20 Rosewall Hill & Ransom, 28s. 9d.
30 Ribden, 5s.
20 Rosewarne and Herland (offer wanted).
10 St. John del Rey. £38½.
5 Stray Park, £283½.
30 South Condurrow, 8s. 9d.
30 South Caradon Hooper, 17s. 6d.

wanted).
5 Old Tolgus.
20 Okel Tor, 21s. 6d.
50 Port Phillip, 21s. 9d.
2 Providence, £39½.
50 Prosper United.
1 Rosewarne Utd., £24

30 Rosewall Hill & Ra

20 Tincroft, £6 3a. 6d.
20 Silver Bank (20s. paid)
12s.
1 Trelawny, £14 %.
40 Trumpet United, 8s 6d.
20 Tolcarne.
10 Treweatha.
50 Tamar Con., £1 10s.
50 Utd. Mexican, £5 %.
50 W. Rose Down, £1 9%.
50 West Starp Park, £5 %.
2 West Sharp Tor.
20 Wheal Unity, 21s. 6d.
1 West Seton, £329 %.
20 Wen. Con., £11 17s 6d.
20 Wh. Con., £11 17s 6d.
20 Wh. Grenv., 31s. 9d.
10 Worthing, 13s.
20 Wen. Con., £11 17s 6d.
20 Wh. Grenv., 31s. 9d.
10 Worthing, 13s.
20 Wen. Con., £11 17s 6d.
10 Wh. Margaret, £46.
50 Wh. Evolution, £165.
50 West Poimear, 19s. 6d.
1 Wheal Cribor, 10s. 6d.
1 Wheal Cribor, 10s. 6d.
1 Wheal Evolution, £165.
50 West Tolcarne, \$s. 3d.
1 Wheal Moyle.
30 W. So. Caradon, 19s.
10 West Margaret, £46.
50 West Caradon, £37 %.
30 Worvas Downs, 4s. 6d.
5 Wheal Grylls.
30 Wheal Arthur.
20 Wheal Norris, 37s.
30 Wheal Arthur.
20 Wheal Prosper.
20 West West Caradon. 50 Gt. Northern Copper, 30s. 1 South Caradon, £305. 20 Wes And is a BUYER of 20 Old Tolgus United, 100 Rosewall Hill and R feet South Caradon, 150 North Minera, and 5 Trelawny. 2, Adam's-court, Old Broad-street, September 6, 1861.

MESSRS. VIVIAN AND REYNOLDS, 68, OLD BROAD STREET, LONDON, E.C., MINING ENGINEERS, INSPECTORS of MINES, COMMISSION, and GENERAL AGENTS for the PURCHASE or SALE of MINE SHARES, RAILWAY, and EVERY OTHER DESCRIPTION of STOCK.

Commission on share transactions, 1% per cent. on £100 and above, and 2% per cent. or less sure.

C. POWELL, MINE SHAREBROKER, 2, SPREAD EAGLE COURT, FINCH LANE, LONDON, E.C.

MR. EDWARD COOKE, 5, HERCULES PASSAGE,
THREADNEEDLE STREET, LONDON, E.C., will feel much pleasure in advising those who may favour him with their confidence on the merits of the various
mines usually dealt in, and also on any new concerns that are from time to time brought
before the notice of the public. Much loss and disappointment may be prevented by a
proper amount of caution on the part of the investor. From frequent personal visits
into the mining districts, together with many years' experience of the mining market,
EDWARD COOKE hopes to be enabled to render sound advice to partiess availing themselves
of the services and prompt cash in all transactions entrasted to his charge.

this services, and prompt cash in all transactions entrusted to his charge.

PURCHASES and SALES in RAILWAY and all OTHER SHARES effected at the sual commission.

BUYER of Timeroft, at £5½.

Sept. 6, 1861. Bankers: London and Westminster, Lothbury.

MR. J. S. PHILLIPS, C.E. AND M.E., SHAREBROKER, &c. 12, ST. MICHAEL'S ALLEY, CORNHILL, LONDON, is now on a tour through

MR. J. SYKES, LEEK, STAFFORDSHIRE, is in a position to Advise speculators as to the purchase of shares which will increase in value of per cent. in twelve months. The opportunity should not be lost. He will guarante per cent. of the loss, if he be allowed 25 per cent. of the profits.

WANTED:—100 Dale, and 100 Ribden, state lowest price.

FOR SALE:—20 Great Retailack, 24s.; 10 Lady Bertha, 18s.; 10 Crebor, 12s.

WILLIAM SEWARD, MINING BROKER, STOCK AND SHAREDEALER, 26, THROGMORTON STREET, LONDON, E.C. SHAREDEALER, 26, THROGMORTON STREET, LONDON, E.C. nmission, 1¼ per cent. on £100 and above, and 2½ per cent. on less sums.

RICHARD CLIFT, MINE SHAREDEALER, late of Redrath, now 48, THREADNEEDLE-STREET, LONDON, where all terrs are to be addressed.

MR JOSEPH GREGORY, MINING OFFICES,
1, BANK CHAMBERS, LOTHBURY, E.C.
BUSINESS TRANSACTED in BRITISH and FOREIGN STOCKS and SHARES.
Terms, 1½ per cent. on £100 and above, 2½ per cent. on smaller sums.
Bankers: City Bank, Threadneedle-street.

JOHN GLEDHILL AND CO., MINE AGENTS AND SHAREBROKERS, MINING OFFICES, CORN EXCHANGE, LEEDS.

C H A R L E S D A V E Y A N D C O.

SAPETY FUSE MANUFACTURERS,
ST. HELEN'S JUNCTION, LANCASHIRE.

THE MIDLAND IRON COMPANY, ROTHERHAM, MANUFACTURERS of BEST "YORKSHIRE," and of STEEL IRON TYRE BARS, for LOCOMOTIVE ENGINE, CARRIAGE, and WAGON WHEELS. Also of REFINED, SCRAP, STEEL IRON and "YORKSHIRE" BARS, HOOPS, RAILS, ANGLE IRON. MALLEABLE SHAFTS. AXLES and FORGINGS.

NICKEL AND COBALT REFINING, AND GERMAN SILVER
WORKS, 16. OOZELL STREET NORTH BIRDY STREET WORKS, 16, OOZELL STREET NORTH, BIRMINGHAM. STEPHEN BARKER begs to inform the Trade that he has the follo refined metallic nickel. Oxide of cobalt. [Wire, &c REFINED METALLIC BISMUTH. | GERMAN SILVER—IN INGOTS, SHEET NICKEL AND COBALT ORES PURCHASED.

A LARGE FORTUNE may be REALISED for ONE POUND only.—For particulars, apply to Mr. FREDERICK SINTE, banker, of Frankfort-on-the Maine, or letters addressed to him, 28, Clement's-lane, Lombard-street, London.

BELL BROTHERS beg to intimate that, having become SOLE LICENSESS in the United Kingdom of Prov. DEVILLE'S METHOD of PRODUCING PURE ALUMINIUM, they are now in a POSITION to SUPPLY, from their works here, both this metal and its compound with copper, known under the name of ALUMINIUM BRONZE.—Newcastle-on-Tyne, September, 1860.

MR. MURCHISON'S REVIEW OF BRITISH MINING FOR THE QUARTER ENDING SOTH MARCH, 1861, is NOW READY. Price One Shilling. At 117, Bishopsgate-street Within, London, E.C.

MR. T. E. W. THOMAS, MINING AGENT AND GENERAL MINING SHAREDEALER, 16, HACKINS HEY, LIVERPOOL.

JOHN R. PIKE, GENERAL SHAREDEALER, 4, 3, PINNER'S COURT, OLD BROAD STREET, E.C.

FREDERICK WILLIAM MANSELL, MINING OFFICES 1, HATTON COURT, THREADNEEDLE STREET, LONDON, E.C. Bankers: London Joint-Stock Bank.

MR. JAMES HAMMON, STOCK AND SHAREDEALER, 1, CROWN COURT, THREADNEEDLE STREET, LONDON.

JOHN RISLEY, SHAREBROKER,

GEORGE RICE, SHAREBROKER, 1, FINCH LANE,

CORNHILL, has BUSINESS in 10 Caradon Consols, 20 East Russell, 100 East Grenville, 20 East Caradon, 5 Grambier, 20 Hingston, 50 Great Restallack, 30 Lady Bertina, 50 Merllyn, 2 North Treskerby, 20 Marke Valley, 2 Stray Park, 20 Tolvadden, 3 West Caradon, 100 Unity, 100 Sortidge Consols, 100 Fowey and Par United, 16 Wheal Ludcott. The market closes good, and prices generally have an upward tendency. Buyers should give their orders without delay, and not limit them to buying for immediate delivery, as in most cases such orders cannot be executed, and delays must arise, resulting in the purchaser having his shares at an uncessarily increased price. Mining shares should be negociated according to custom of Stock Exchange.

There are still several good shares which might be bought for a further rise. (List will be sent on application.) There are others upon which profits should be at once realised. East Caradon have had a rise from £24 to £28. A rise in value of the entire mine of £24,570. It now stands at £172,000 for the whole mine. At this price the present dividends will only give £7 to £10 per cent. When the shares a few months since were at £23 I advised my clients to sail. Those who acted upon that advice made great profits, as the price shortly after fell to £23. At that time the lodes at the 60 east was worth £110 per fm., and west £140 per fm. The present values (same as for several weeks past) are respectively oast £90; west £20. The present high price is owing not to any improvement in the mine as 10 market operations. I am, therefore, led to repeat my advice, and advise immediate sales, that the highest profits might be secured before the price again declines.

VIRTUOUS LADY MINE.—In consequence of the death of one of The LUCUS LADY MINE.—In consequence of the death of one of the two parties who were working the above mine, it is intended to SELL the WHOLE of this VALUABLE SETT, together with ALL the MATERIALS, consisting of SEVERAL WATER-WHEELS, GRUSHER, &c. To any party desirous of forming a limited liability company a most favourable opportunity is now offered. The property has been inspected by Capis. J. H. Reynolds, John Prince, and others, whose reports, and all other particulars relative to the above, may be had on application to Mr. E. Cooks, 5, Hercules-passage, Threadneedie-street, London. N.B. There is ample water-power for all purposes.

DEVON NEW COPPER MINING COMPANY (LIMITED).—
THREE HUNDRED AND FIFTY paid-up (£2) SHARES in this mine TO
buildings, London.

HIRNANT LEAD MINING COMPANY.—TO BE SOLD, TEN £1 paid-up SHARES of the above MINE. To be disposed of below the TEN £1 paid-up SHARES of the above MINE. To be disposed of bearket value.—Apply at the Telegraph office, Wrexham.

MERSEY DOCK ESTATE.—The MERSEY DOCKS AND HARBOUR BOARD REQUIRE the SERVICES of a COMPETENT PERSON TO FILL the POSITION of ACTING RESIDENT ENGINEER, and to take charge of such works as are now in progress of execution, as well as those in operation. The salary will be £1500 per annum.

Testimonials as to competency, and of having had experience in works of a similar character, must be forwarded to the Secretary of the Mersey Board on or before the 1st October next.

Dock Office, Liverpool, September 5, 1861.

WANTED, an OFFER for ONE HUNDRED AND EIGHT SHARES in OKEL TOR MINE.—Address, "G. K.," 2, Albert-place, New

ON SALE, from FORTY to FIFTY IRONSTONE or COAL WAGONS.—Apply to the Trustees of the late J. Heath, Esq., Tunstall, Staf-

ON SALE, an EXCELLENT SLATE QUARRY, on reasonable terms.—For further particulars, apply to "D. B.," slate rock inspector, Lianllyfni,

SLATE QUARRIES TO BE SOLD, OR LEASED, on fair terms, situate 14 miles from the city of Waterford, Ireland. Samples of the slate can be seen at Messrs. Grantoff and Co.'s, 4, Lime-street-square, City, where owner can be seen for further information.

VALUABLE TIN MINE.—A FEW GENTLEMEN have SPENT a LARGE SUM of MONEY in OPENING AN EXCELLENT TIN MINE in CORNWALL, and there is no doubt that it will soon give large profits. An INTEREST THEREIN, and also in TWO OTHER FIRST-RATE MINES in full working, certain soon to pay well, MAY BE OBTAINED by bona fide investors in bona fide mines on application to James Hollow, Mining Offices, Lelant, Hayle, Cornwall. September 4, 1861.

FOR SALE, EIGHT and NINE INCH LIFTS, complete.

WIRE ROPES.—WANTED, an AGENT for the SALE of WIRE ROPES in the MINING DISTRICTS. Parties who have been already in the business, and who are still in connection with the mines, will be preferred.—Adiress, "A. W. R.," 20, Hatton-garden, London.

THE ADVERTISER WISHES to MEET with ONE or TWO GENTLEMEN who would TAKE the INTEREST of two about to retire from a RST-CLASS PRIVATE CONCERN, PAYING OVER THIRTY PER CENT. on invested capital. The amount required is not large, and one would be expected to p the accounts of the concern, for which a liberal salary is allowed.—Address, "F. E.," ning Journal office, 26, Fiest-street, London, E.C.

TO CAPITALISTS IN CONNECTION WITH THE COAL AND IRON TRADES.—WANTED, by an IRON an COALMASTER, a PARTNER or PARTNERS, who can furnish about £10,000 by instalments, and keep £5000 to be further brought in, if required, within a period of two or three years, making \$5000 to be further brought in, if required, within a period of two or three years, making tegether £15,000, for a MOLETY of a PIG IRONWORK and EXTENSIVE COAL WORKS in WALES, which are capable of an immediate return, and with a little further outlay (part of the capital now required) will make a profit exceeding £20,000 per annum fixed, certain, and free from risks. The property is a most eligible one, on the South Wales Railway, near the best Weish ports, within an 8s. rate of London, and where forge pig and foundry pig of the best quality, as well as tin-plate pig-iron, can be made at an average cost of 35s. per ton, and coal put in the railway wagons on the rail at 3s. per ton, with most extensive markets open. The property is extensive, and contains abundance of the best coal, house, steam, from making, and coking, as well as black band, claystone, and hematite ore, of which there is a fine field, known as the Liantrisant Mine. The railway passes through the property.—Apply to "E. D.," Mining Journal office, 26, Fieet-street, London, E.C.

TO CAPITALISTS.—WANTED, a PARTNER who can invest a few hundred pounds to WORK a COLLIERY situate in the FOREST OF DEAN, GLOUCESTERSHIRE, already theoroughly opened on four of the best seams of red ash coal in the district. The colliery has been producing coal for some time, which has hitherto been shipped at Lydney Basin, and a satisfactory market has been secured for it. With a small additional outlay a vend of at least 70 to 90 tons of coal daily may be obtained.—For further particulars and to treat, apply to "Y.Z.," Post-office, Lydney, Gloucestershire.

TO RAILWAY CONTRACTORS' ENGINEERS.—WANTED to go to the Peninsula, a YOUNG MAN COMPETENT to LAY DOWN a short LINE for MINERAL TRAFFIO. Must be an expert leveller, accustomed to superintend earthworks, and habituated to laying down sharp curves. A second-class engineer, who has been employed on a Welsh line, would be preferred. He will be accompanied by an English plate-layer.—Apply first by better, stating particularly the works the splicant has been employed on, and the nature of the estilicates he can procure relative to his capabilities, to F. T. Barry, 1, Adelaide-place, London-bridge, E.C.

TO COLLIERY PROPRIETORS.—IMPROVED SELF ACTING TIPPLERS and SCREENS, for LOADING COALS at the PITS with dispatch, and ENTIRELY PREVENTING BREAKAGE. Manufactured by WILLIAMS and MOWALE, Egerion-street Foundry, Chester, where models and testimonials may be seen, and every information obtained. Prices moderate. Delivered at any sullway station.

Original Correspondence.

PRACTICAL PAPERS ON COLLIERY OPERATIONS-No. XIII REMARKS UPON THE ACCIDENTS AND LOSS OF LIFE IN CONNECTION WITH THE WORKING OF COLLIERIES.

Sir.—In reviewing the accidents of the past year, no one can but be painfully impressed with the fact that, despite the efforts of the Government Inspectors of Mines, the philanthrophist, and the few coal proprietors who have done all in their power to prevent such waste of human life as now occurs, the number of fatalities is on the increase. Even taking into who have done all in their power to prevent such waste of human life as now occurs, the number of fatalities is on the increase. Even taking into consideration the increased quantity of coal gotten in the year 1860, and making all necessary and due allowances for the same, the amount of loss of life appears almost stationary; at all events, there is no sensible diminution in the percentage of lives lost. With these startling facts before us, we ought not to be surprised that the public are beginning to take up the subject with greater carnestness than hitherto, and that the question should be so often asked—Can nothing be done to prevent such awful loss of life? On a fair computation it may be assumed that for every life lost in the mine there are at the least eight others maimed, many for life; so that, upon this computation, we have had no less than 8872 individuals injured and 1109 killed during the year 1860 in the working of coal mines, without taking into consideration the great number that lose their lives and health by a slower but, nevertheless, as certain a process—that of working in vitiated air. My candid opinion is that if the victims to the latter cause could be counted, they would far exceed the number maimed from all causes. But setting aside the latter cause, and assuming that we have raised 72,000,000 tons of coal in the year referred to, we have for every million tons of coal raised 15'-4 lives lost, and 123'2 maimed. With these frightful facts before us, it must be a source of deep regret to all right-thinking minds that this country's greatness cannot be maintained at a less loss of life and of injury than the figures above present, showing a yearly sacrifice equal to that which has decided the fate of nations upon a hard-fought battle field. When I speak of Eugland's greatness, I mean that without her mines and her miners she would be unable to maintain her position as a first-rate rower for one single recent. When I speak of England's greatness, I n a hard-fought battle field. When I speak of England's greatness, I mean that without her mines and her miners she would be unable to maintain her position as a first-rate power for one single month, and that had it not been for her mineral wealth she would have been almost unknown to the rest of the world, and as but a speck upon the globe.

The coal mines of Great Britain have doubtless done more towards

contributing to the comforts of civilised life than almost all other things combined. If, then, the miners of this country have done so much towards combined. If, then, the miners of this country have done so much covaries building up and maintaining their country's greatness, is it unreasonable to ask that they shall receive in return that respect, attention, and protection which they are honestly entitled to, and that their hazardous occupation be rendered as safe, healthy, and agreeable as possible; and that they be no longer told, as a requital for their services, that all is being done for them that can be? I am far from denying that the working of collieries is attended with considerable risk, and that accidents and loss of life are increaseable from it, but with the Risca Burndon Russely Hamilton and inseparable from it, but with the Risca, Burradon, Rugely, Hamilton, and Clay Cross catastrophes before us, and the case of Messrs. Lee and Co.'s Rhodes Bank Colliery, near Oldham, where everything is described as being ready for an extensive explosion occurring, the air-courses nearly made up, and the case of the services of the control of the courses of the course of the courses of the courses of the course of th Rhodes Bank Colliery, near Oldham, where everything is described as being ready for an extensive explosion occurring, the air-courses nearly made up, and the temperature little short of that of a Turkish bath, who can resist the opinion that very little has been done towards saving human life compared with what might be done? The foregoing are only a few of the cases that might be cited illustrative of the laxity of discipline that is manifested in the management of collieries in many parts of this country. Much has been said of the ignorance that is to be found amongst the miners as a body, and some have gone so far as to assert that to this cause may be attributed much of the great loss of life that annually takes place in the working of our mines. The same parties hold out very sanguine hopes of education bringing about a change that will materially lessen the number of fatalities, by making the miner more thoughtful of risking his

number of fatalities, by making the miner more thoughtful of risking his number of latalities, by making the miner more thoughtful of risking his own safety and his employer's property; and that educating the miner will alike confer a boon upon employer, employed, and the community at large. I am far from underrating the advantages to be derived from an early education, but I cannot ignore the fact so often presented to me, and doubtless to many others in a similar position, that so soon as a miner obtains a little education his efforts are directed to either getting out of the pit electrons in the state of the state altogether, or raising himself to a position of trust in the pit; but in the majority of cases his mind is bent upon obtaining employment more congenial to the tastes of man than of being deprived of the light of heaven, or being shut out from the exhilirating and cheering influence of the sun's rays. It was said by the late Mr. Cobbett, M.P., that the ignorant man makes by far the best workman, and to a great extent the truthfulness of his remarks is strictly borne out in conducting mining operations; but it is now acknowledged on all hands that man ought to live for some higher and ablest never the truthfulness of the sun that the s and nobler purpose than that of merely toiling, eating, and sleeping. It, therefore, becomes a question for serious consideration whether the dangers, toils, and hardships that the miner has long been subjected to at the major part of collieries cannot be lessened, so as to accord with the finer feelings of the educated body of miners that will in all probability supply the places of the present uneducated miners, providing the efforts are persevered in that have been so laudably commenced at some few collieries in an entirely voluntary manner

There can be no two opinions as to the character of the miner being changed to some extent by what recent legislative enactments have rendered imperative, and that the educated colliers will not perform the same dangerous and unhealthy duties that they have long been accustomed to with that cheerfalness of disposition and alacrity of spirit they have long been noted for. I, therefore, contend that it is of the utmost importance and advantage to employers to do all in their power to render the occupapation of a collier as safe, healthy, and agreeable as possible; and that if all reasonable measures be not taken to effect this change a scarcity of colliers must be the consequence, and further legislative interference, probably to an extent that will become mischievous, and prevent the mines being so fully worked as at present. The employers, or owners of collieries, in this country have the power to effect a change in a few years time that would not only render greater security to the miner but to the capitalist also. This change could be effected, in all probability, at a very great advantage, in a pecuniary point of view, to those by whom it is most required. The means of effecting the change would be by giving proper encouragement to colliery managers, by paying them salaries commensurate with their duties and responsibilities, and holding out necessary inducements for obtaining the best talent that can be procured. It is only a few years ago since I had the opportunity of knowing the amount of wages paid to three so-called colliery managers under one firm. They were each held responsible for the management of their respective portions of the colliery, both above and underground. The wages paid to one was 28s week! changed to some extent by what recent legislative enactments have ren responsible for the management of their respective portions of the colliery, both above and underground. The wages paid to one was 28s. weekly, and the others 25s. Such was the ignorance and incompetency of the trio, that the Government Inspector refused to meet them after he had had a first interview: he said they could only be considered as subordinates and common workmen, and that it was useless for him to talk to men who could not understand him. To the discrete of the firm they had then could not understand him. To the disgrace of the firm, they had then attained an unenviable notoriety for the number and frequency of preventable accidents. It is only right to say that, so far as I am aware, this is an isolated case of attempting to pay colliery managers with such miserable pittances. But there are many who pay salaries that are inadequate to obtain first-rate talent, and others that have in reality no managers at all, but trust to the chartermaster, or butty.

In districts where the charter system is employed, it will be found that the accidents are much in excess of what they are in other localities, even where the danger consequent upon working a colliery is not so great, will be generally found that the daily output is very small, seldom exc where the danger consequent upon working a colliery is not so great. It will be generally found that the daily output is very small, seldom exceeding 60 tons at one shaft, where the butty system is practised, and that the shafts are not deep, consequently rendering it a comparatively easy task to successfully manage a colliery so circumstanced.

It is not only explosions that require guarding against, but accidents arising from falls of roof, accidents in shafts, and those arising from miscellangous causes: in fact, the loss of life from explosions, great as it is

cellaneous causes; in fact, the loss of life from explosions, great as it is, does not constitute a third of the aggregate loss of life in working the coal mines of this country for the six years ending 1860. From the sudden and appalling manner with which this class of accidents has fallen upon the ears of the community at large, it has, however, caused the greatest commisseration to be averaged of the property of the propert misseration to be expressed for the poor miner. The bare recital of the fact of the village churchyard being too small to contain the number of graves required for the interment of those who lost their lives by the Risca nd that a cemetry was formed from an adjoining field, is suffi-d a thrill of horror through everyone possessed of sympathetic cient to send a thrill of horror through everyone possessed of sympathetic feelings; yet the number of lives lost by the Lund Hill Colliery explosion far exceeded that of those lost at Risca. What renders the circumstances still more painful is that no unprejudiced mind can read the imperfect

evidence given at the coroner's inquest and resist the idea that this fearful

ss of life was occasioned in each case through bad manager. In order that the reader may form his own conclusions waste of human life consequent upon the working of the coal mines of this country, I will append a tabular statement for the last six years of the number of deaths from the various causes:—

Deaths from-	1855	1856.	1857		1858.	1859		1860.
Explosions								
Falls of roof								
Shaft accidents	235	 210	 166		172	 191		182
Miscellaneous	181	 183	 266	****	178	 220	****	176
	_	-	-		-	_		-
Total	963	1027	1122		931	905		1109

It will be seen from the above statement that for the six years in question the total loss of life has been 6057 from all causes, whilst for the same period the loss of life from explosions alone has been 1433. And from a further examination of the above figures, it will be found that the number of deaths from explosions for the last year far exceed those of any previous year, excepting in 1857, when nearly 200 lives were lost by the Lund Hill catastrophe. The accidents and loss of life arising from falls of roof and coal and the sides of working are less for 1860 than for any previous year, excepting in 1857 and 1858; and the percentage upon the quantity of coal raised is less than in the two exceptional years. How, far these facts accord with the statements made in some of the Government Inspectors' reports for the year 1860, when advocating the desirability of setting a certain number of sprags and props for each specified area, whether required or not, and in declaring that the great loss of life arising setting a certain number of sprags and props for each specified area, whether required or not, and in declaring that the great loss of life arising from this cause was owing to its being left to the judgment of the manager and his subordinates where and how they were set, I will leave to the judgment and discernment of the reader. Accidents and loss of life classes Judgment and discernment of the reader. Accidents and loss of life classed under the head of shaft accidents present a more flattering aspect for 1860 than in any previous year, for whilst the quantity of coal raised has steadily increased, the loss of life from accidents of this class is less than in any of the years referred to, excepting in 1857 and 1858. One can but be impressed with the idea that much remains to be done in the prevention of shaft accidents, if we take a tour through Staffordshire, and examine the uncouth and primitive methods of raising coal and ironstone employed at many collected in that districts.

many collieries in that district.
It is gratifying to know that the Government Inspectors have do it is grainlying to know that the Government Inspectors have done much in lessening the number of fatalities from the cause under consideration, despite the fact that the depths at which coal is wrought are steadily increasing, and consequently the danger increases in the same ratio. It may be that their efforts have been attended with greater success in this respect from the machinery and winding gear presenting only slight diffi-culty in being examined, compared with an underground examination. The accidents and loss of life from miscellaneous causes above and under-The accidents and loss of life from miscellaneous causes above and underground present a still more flattering appearance for 1860 compared with previous years, the number of lives lost being less than in any previous years, with the quantity of coal gotten on the increase. This improvement is also in a great measure due to the Inspectors of Mines; and the same remarks will apply to accidents upon the surface as were made respecting the facility with which an inspection can be made at surface compared with one underground.

How few, when enjoying the comforts of a good fire, take into consider-

How few, when enjoying the comforts of a good fire, take into consideration the cost to human life that the coals have been wrought at. According to the returns for 1860, each week that rolls over in the ever cease-less course of time adds to the list of lives lost in the working of our collision. less course of time adds to the list of lives lost in the working of our colliciries 21½ human beings. Upon the assumption that eight persons are maimed for every life lost, we have the fearful number of 170½ killed and maimed weekly, or more than 24 daily, Sundays included. These plain, unvarnished facts speak volumes, and may reasonably be considered strong enough to reach the feelings of the most callous votary of mammon. But it would appear, from the frequency with which preventable accidents occur, and the number of cases that are brought before the public, from the owners and managers of collieries neglecting to comply with the legislative enactments, that the startling facts previously given are either passed by unnoticed, or are never presented to many of our proprietors and managers of collieries are never presented to many of our proprietors and managers. by unnoticed, or are never presented to many of our proprietors and managers in such a form as to be understood. My candid opinion is that many of the accidents and loss of life that occur might be prevented by a proper system of managing collieries being adopted, an opinion not hastily formed, but by well considering over the circumstances that occasion the loss of life complained of; and the more I examine into the circumstances the firmer my belief that the only effectual method of hynering about the de-

life complained of; and the more I examine into the circumstances the firmer my belief that the only effectual method of bringing about the desired change is by proprietors and owners of mines encouraging and aiding the practical youth to attain a position that is inaccessible to all who have not strength of mind to almost mock the term "impossible," and, by holding out inducements, to obtain the best talent that can be procured. In my next and concluding letter of this series I purpose entering more fully into this part of the subject. I may remark that I entertain a different opinion upon the propriety of laying bare the existing civils of our present system of colliery management than many who stand in a similar position to myself; but it is from a thorough conviction that more benefit will accrue from adopting that course than that of sailing with the stream, and endeavouring to conceal from the view of all outside the mining world the real causes of such waste of life as is now going on. If proprietors and endeavouring to conceal from the view of all outside the mining world the real causes of such waste of life as is now going on. If proprietors will make a very small sacrifice voluntarily at the present time for the object named it will render it unnecessary for much greater sacrifices to be compulsorily made ere long, whilst they will reap treble the advantage for the sacrifice voluntarily made, by having their mines better managed in every respect. I have no object beyond that of benefiting practical mining in making the unpleasant remarks I have felt it my duty to make in this and previous letters. I am at present a colliery manager, and in that position, in all probability, I shall centinue. My highest ambition has been hitherto to raise myself to the highest position that can be attained in that capacity: it remains to be seen whether I shall accomplish that object or not. All that I can say is, that if continued application in the pursuit of knowledge that I conceive to be absolutely necessary for a colliery manaknowledge that I conceive to be absolutely necessary for a colliery manager to possess will place the prize within my grasp it will, probably, be attained. I have no desire to raise myself by putting others down, nor by setting myself up as a paragon of perfection, but I cannot close my senses to the facts so often presented to me, that, on a fair computation, two-thirds of the accidents that occur are the results of bad management; and if the miner should occasionally be found reckless, the palliating circumstance of his superiors setting him no better example ought to be accepted as an apology.

Jos. Goodway

COLLIERY WORKINGS-THE RISCA EXPLOSION.

-In the Journal of Aug. 24, I noticed in the Report of Monmouthshire and South Wales a paragraph relating to some disclosures of William Derrick, the principal night fireman at the Black Vein Pit, Risca, when the awful explosion happened there on Dec. 1 last. Although not published in extenso, there is sufficient light thrown on the subject as to explain the hitherto mysterious difference in the height of the water-gauge between myself and the Government Inspector's registrations of the direct through the mines—that he Wm. Derrick was ordered by the viewer to gauge between myseir and the Government Inspector's registrations of the drag through the mines—that he, Wm. Derrick, was ordered by the viewer to turn the wind into a short cut through No. 2 east, and up Bedlington's deep into the upcast shaft, while the Inspectors were trying the water-gauge, thereby lessening the drag by such trickery to probably less than one-half what it would be if the air were made to circulate to the face of the workings. It will be remembered that when I tried the water-gauge at the east separation doors it gave 3 in. of water, and at the machine 4 in. of water. It is much to be deplored that men holding responsible situations, where the safety of hundreds of lives are dependent on their skill in the management of works entrusted to their care, should so far forget themselves as to descend to deceive their fellow-men, and hide, as it were, the real truth from public view. It is to be hoped that the truth, and nothing but the truth, will now come out, so that scientific and practical men will have a chance to discuss the matter over as it really was, and not under false colours—in this way a remedy is easily found to prevent a repetition of such disastrous calamities to life and property. In conclusion, I would beg to propose a remedy—I would suggest that a small gutta percha dam, or any other airtight tubing (say \(\frac{1}{2} \) in. or \(\frac{1}{2} \) in. bore) should be inserted through the coal or the mason work around the separation door or doors of a colliery, with its open end to the exhaust side of the doors; the other end to be taken up the shaft drift, or any other means to the surface of the ground, and here attach a graduated water-gauge to this end, enclosed in a good strong how with a class feed on the strend water-gauge to this end, enclosed in a good strong the colliery of the collier of the ground, and here attach a graduated water-gauge to this end, enclosed in a good strong the colliers. drag through the mines—that he, Wm. Derrick, was ordered by the viewer to here attach a graduated water-gauge to this end, enclosed in a good strong box, with a glass face, and at all times exposed to the view of the colliers or any one else, and that a book of its registration should be kept by a disinterested person in readiness at all times for the Inspector to examine when visiting the works. By this means all the surface men would be able to see if any derangement took place in the wind-roads, and would be able to apprise the underground officers of it at once. M. Morgan,

Sept. 4.

VENTILATION OF COLLIERIES.

SIR,—For some weeks past a discussion has been going on in the Mining Journal, relative to an invention patented by Mr. R. H. Hughes for ventilating collieries by forcing air into them instead of drawing it out by the usual method. In theory I must admit that nothing can appear more feasible, but in practice its utility has to be proved. No doubt there will be some difficulty encountered in finding a coalowner sufficiently speculative to adopt it; but I think that if Mr. Hughes can satisfactorily answer the following questions the doubt of a large number of your readers in the doubt of a large number of your readers in the doubt of a large number of your readers in the doubt of a large number of your readers in the doubt of a large number of your readers in the doubt of a large number of your readers in the doubt of a large number of your readers in the doubt of a large number of your readers in the doubt of a large number of your readers in the second of the second o following questions the doubts of a large number of your readers inter-ested in the subject will be removed, and his object—that of securing the adoption of his invention—will be more readily achieved.

Mr. Hughes tells us that it is far better to force air in than to draw it out of collieries; but he does not give us any evidence in support of his opinion.

Almost the sole cause of deficient ventilation is the failure to lead the air in the direction in which it is intended to be led; and I would ask

in the direction in which it is intended to be led; and I would ask Mr. Hughes whether it would not be more difficult to direct the air by means of pipes formed with innumerable joints, than by the ordinary galleries of

of pipes formed with innumerable joints, than by the ordinary galleries of the mine, where the only joints are the trap-doors, which, by being made double, can be rendered perfectly sate, or, at least, practically so? But, even supposing that the joints could be made tight, could they be made so by ordinary colliers? because, if we are to have a staff of blacksmiths, plumbers, and gas-fitters underground, Mr. Hughes would have to prove that the working costs will not be increased.

There is one way, however, in which I think Mr. Hughes could speedily secure the adoption of his invention, and that is by proving that white he infers to be a fact—that air can, with the same sized machine, be had into a mine in larger quantities than it could be drawn out. I am half inclined to this opinion myself, as it seems very feasible that once the air forced into the pipes it must seek to escape (its escape, of course, being into the mine); but that, although the same force be applied to draw air out, we may only get rarefied air, so that a much smaller quantity would be found to enter the part for ventilating purposes. This Mr. Hughes should at once turn his attention to; and I am sure he will gain both scientific reputhe mine); but that, attnught the same and a maller quantity would be found to enter the part for ventilating purposes. This Mr. Hughes should at once turn his attention to; and I am sure he will gain both scientific reputation and pecuniary success in securing the adoption of his invention. G. R.

SAFETY-LAMPS.

Sir,—In reply to your correspondent, "Coal," in last week's Journal, as to the practice of triuming lamps by forcing a wire through the gauze instead of using the ordinary pricker, we had not heard of such a practice until we saw his letter. Such a practice is objectionable, as it destroys the until we saw his letter. Such a practice is objectionable, as it destroys the mesh of the gauze, to say nothing of endangering the mine. Of course, such a practice may exist; but we think the viewers and overnmen would not tolerate the evil, being too intelligent in discharge of their duties to allow themselves to be long cheated in such destructiveness; we are confident they would both reprobate and punish the men for such dereliction. In addition to our being extensive manufacturers of all sorts of lamps, we repair an immense number for the local collieries, midland district, and Wales, and on no occasion have we seen the mesh of the gauze disordered. That the introduction of glass-sided lamps, whether the Stephenson, Clanny, or Mozard, would obviate this evil, if it really exists, we think there can be but one oninjon; and we are clad to see and to say, that the glass sided or Mozard, would obviate this evil, if it really exists, we think there can be but one opinion; and we are glad to see, and to say, that the glass-sided lamps are now being more generally used. We are disposed to think, with the numerous calamities of this year, that the recommendation of the coroner has had something to do with the change from the Davy to the glass-sided lamp. The Stephenson was strongly recommended after the Risca explosion, and it has now become a favourite lamp. Of this fact we can speak with confidence, as our orders for the "Geordie" have very sensibly increased. Glass-sided lamps, however, have been long extensively used in with confidence, as our orders for the "Geordie" have very sensibly increased. Glass-sided lamps, however, have been long extensively used in this district, and some of the collieries use no other. We point only to two collieries in illustration; as, from the circumstance of these using them so exclusively others have gradually introduced them. The famous Wearmouth Pit, one of the deepest in the world, uses the "Clanny," and there are about 2000 in use. The Killingworth, the mention of which colliery at once reminding of the original inventor of the safety-lamp, George Stephenson, uses the production of this illustrious individual, and has done so for a considerable number of years.

Park Works, Gateshead-on-Tyne, Sept. 4.

SAFETY-LAMPS.

Sir,—The number of improvements in safety-lamps which have been introduced to the public since the time of Davy's and Stephenson's disintroduced to the public since the time of Davy's and Stephenson's discoveries has been very great, but in nearly every instance there has been something novel and something to admire; it has been proposed to afford increased light to the collier, or to afford him additional safety by providing that the lamp shall be extinguished before it is opened; an improved lock has been suggested, or the necessity for a lock has been removed by providing some more effective fastening. The earlier lamps were, no doubt, both clumsy and complicated, if we except the original Davy and Stephenson; but recently lamps have been invented which I really think could be substituted for those at present in use.

The Clanny and Mozard are, doubtless, the best that could be devised for illuminating power, and the Stephenson for safety and cheapness com-

The Clanny and Mozard are, doubtless, the best that could be devised for illuminating power, and the Stephenson for safety and cheapness combined; but there are other lamps which are superior to these, perhaps, where a combination of great illuminating power with perfect safety is desired, regardless of slightly increased cost. For instance, there is the dioptric lense lamp of Mr. Wilkinson, of Long-acre, the paraffine lamp of Mr. T. Y. Hall, and several others, which I should think might be advantageously used for fixed lights in horse levels, as well as in the other main galleries in the pit. I quite agree with the remarks of your correspondent, that Mr. Hall's lamp would have the advantage that the oil to be burned could be manufactured on the spot, and I think, moreover, that it would be found that the introduction of a larger number of fixed lights underground would result both in increased safety, because a smaller number of lamps need be placed in the hands of workmen and boys—in fact, I think that no boy need have

resuit both in increased satety and increased economy. I assume that there would be increased safety, because a smaller number of lamps need be placed in the hands of workmen and boys—in fact, I think that no boy need have a lamp at all—and all fixed lamps could readily be placed under the care of one competent workman. As to the economy, I believe it would farise from a greater amount being obtainable from a given number of lights at fixed intervals than from a similar number swinging about in the hand. I am aware that moving objects cannot be seen at so great a distance with fixed lights as with lights attached to them, but I believe this difficulty might be overcome by the use of small shields to prevent the glare of the fixed lamp at any time falling upon the eye of those in the level. I have had my attention recalled to the subject from noticing that Messrs. Crawley and Schneider have patented a new Argand safety-lamp, which I should think would give a great amount of light even with the ordinary wire-gauze top, and which, with glass sides (to be used only for he lights), would be as powerful as any that I have seen. It would be interesting to learn the opinion of practical men upon this subject, more especially if they would at the same time state the precise objections to the several lamps that have been proposed as substitutes for, and improvements upon, the Davy and Stephenson, for I believe that the sole reason for any defect remaining unremedied is because its existence is not generally known Houiller. HOUILLE.

NEWCASTLE v. WELSH COALS.

NEWCASTLE v. WELSH COALS.

SIR,—In last week's Journal your South Wales correspondent refers to the oft-repeated statement that "4 tons of Welsh coal are cqual to 5 tons of North Country coal," but although I am ready to admit that even tais gives us an immense advantage over our rivals, I am not altogether satisfied that the subject should be left there—the advantage ceded to Welsh coal is not so great as facts would justify. In the Mining Journal of March 6, 1958, Mr. S. B. Rogers stated the question very fairly, and from the conclusions which his letter very naturally leads to, it will be seen that there are Welsh coals which are doubly as good as North Country coal, and that half a dozen sorts might be mentioned which would show the results of burning Welsh to be 45 per cent, better than from burning North Country coal. Thus, Prof. W. R. Johnson, of the United States Navy Department, states the fixed carbon, or steam-equivalent, of Newcastle coal to be 57 per cent., whilst Mr. Rogers states the fixed carbon in Ystalyfers coal to be 95 per cent.; in Morris's Swansea, 76 per cent.; in Powell's Aberdare, 86 per cent.; in Morris's Swansea, 76 per cent. Indeed, in a list of 18 analyses which Mr. Rogers gives I cannot find one so low as the Newcastle coal—the lowest of the Welsh (the Blondare) being 5 per cent. higher than the Newcastle.

As a second-rate steam coal, no doubt the North Country coal

As a second-rate steam coal, no doubt the North Country coal is mar-As a second-rate steam coal, no dout the North Country coal is ketable, and where Welsh coal cannot be obtained the North Country coal is a very good substitute, but I think after such statements as these have been extensively published it should not be attempted to prove even that 5 tons of Newcastle coal are equal to 4 tons, as it is much nearer truth to say that 2 tons of Welsh are equal to 3 tons of Newcastle. The most say t out

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RATING OF MINES.

Sirk,—It was only to-day that I had an opportunity of perusing the Journal of the 24th inst. I was forceably struck with the letter of "Coal Owner," respecting the mode of rating collieries to the poor in the way and mode which he wished to be adopted, to enable all coal proprietors and metallic miners to free themselves from paying rates—i.e., combining together and get an Act passed to exempt all mines from being rated to the poor. I have been for the last 20 years connected with collieries, and I never experienced the annoyance which your correspondent intimates. On the contrary, where assessors meet with coal proprietors who are willing to assist the assessors in giving them the necessary information as to the number of men employed as getters of coal, or the annual amount paid as royalty, so as to enable the assessor to arrive at a correct amount; when this is done with a good grace you never hear of any appeals being made to the magistrates. "Coal Owner" loses sight altogether of the fact that in the mining districts a large portion of those chargeable upon the poor rates are persons who have been crippled in mines, consequently unable to work in coal mines or elsewhere, hence the poor rates are increased. "Coal Owner" should sit for a few years at a board of guardians, as I have; no doubt he would then see and find how many widows and fatherless children at the expense of life and limbs of those who most need his support! My views of minerals of all descriptions are quite different to "Coal Owner's." I would levy a tax upon all metallic mines, also upon coal and Cannel, and free tea and sugar; this could be done without endangering the metallic trade in the least. Consider the poor, the rich will take care for themselves. Liverpool, Aug. 31.

ACCIDENTS IN METALLIC MINES—INSURANCE.

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ACCIDENTS IN METALLIC MINES—INSURANCE.

Sir.,—For some years past proposals have from time to time been made for establishing an insurance company amongst miners, but up to the present time it has not been carried out, although week after week brings fearful accidents and deaths, leaving widows and orphan children to deplore their loss, and to be thrown upon the world penniless—the general result being that they are compelled to go into a Union, frequently becoming permanent paupers. We have schools formed and other institutes for bettering the condition of miners, and it is to be hoped that the miners themselves, assisted by the agents, will once more endeavour to form an insurance company for miners. A small monthly sum amongst so many would soon be able to assist the widow and orphan, and render them independent of parochial relief. Let miners consider the old adage, that "many a mickle makes a muckle," and no doubt if once established they would be assisted by many influential men connected with mines, and patronised even by the Duke of Cornwall himself.

At Calstock, a few days since, a miner—Benjamin Mitchell—who was much respected to the district, was killed by failing away in the River Tanar Mine, and has left a wife and seven children without money or friends who can assist them. Of the children, the two cleds trac cripples, and the eldest only 14 years old. Mitchell was one of the most industrious and well conducted miners I know, and worked under me for years. Should any charitable person be disposed to render any assistance to his family, I will gladly receive their subscriptions, and see that they are properly applied. Thos. Nicholas.

The ATING COAL FOR SOLUD AND HOULD HYDROCARRONS.

TREATING COAL FOR SOLID AND LIQUID HYDROCARBONS

TREATING COAL FOR SOLID AND LIQUID HYDROCARBONS.

Sir,—I noticed that in last week's Journal you briefly referred to the invention of Mr. W. M. Williams, of Handsworth, for treating coal and other bituminous minerals and peat for obtaining a maximum of solid and liquid hydrocarbons, and a minimum of gaseous hydrocarbons, but I think that from the increasing use it will be interesting to know more minutely what Mr. Williams's process is. I have carefully read his specification, and his invention seems to be at once simple and likely to prove successful; and might, therefore, probably tend to the solution of the problem for the successful working of the peat bogs of Ireland.

The retort and refrigerator are much of the ordinary description, a safety-valve for the escape of any permanent gas that may be formed. As soon as the retort is charged all the openings are securely closed, except the safety-valve, and the retort is rapidly raised to, and maintained at, a red heat until volatile products cease to pass off. The retorts employed are in the shape of upright [cylinders, and the products of distillation are conducted from the retorts by means of side-pipes opening into the retorts near the top. The retorts are charged with canisters made of sheet-iron, and of such a form and size that they nearly fill the interior of the retorts. The object of these canisters is to make the process of distillation almost continuous—all that is necessary being to draw out the canister of refuse, and replace it by a fresh one ready charged.

T. C. B. replace it by a fresh one ready charged.

PIT SINKING IN BELGIUM BY KIND'S PROCESS.

PIT SINKING IN BELGIUM BY KIND'S PROCESS.

Sir,—This process having been tried for some time, both in France and Belgium, without success, it was determined, after a long discussion, that the failure was caused by the use of wood tubbing; it was, therefore, resolved, in spite of the practical difficulties presented to the use of iron tubbing, to adopt that means of stopping back the water, &c., and by adapting a box sump to the lower end of the apparatus, which permitted the more compact arrangement of the concreting, and enabled them to maintain the tubbing perfectly dry. By these means Kind's process may be applied with almost certainty of success. Thus far, as may also be learnt from the details, it presents both simplicity and rapidity of execution, which, with its great economy, will, without doubt, in almost every case where it is a question of sinking through lands containing springs or water levels, be almost universally adopted. A large extent of lands comprised in the perimeter of our coal basins are yet unexplored, on account of the difficulty of pit sinking, and it is precisely under the conditions in which these untonched riches lie that Kind's process will be called on to lend its aid. The southern part of our coal concessions, called the centre, are in this state: powerful springs or water levels, lands difficult to sink through, some, for example, presenting a great resistance to the attack of ordinary tools; whilst others, such as quicksands, can only be sunk through at full spring; such are the elements against which we have to contend to reach the coal beds. The Coal Company of Péronnes, which was the first in Belgium to undertake the trial of Kind's process, possesses a concession of 1000 hectares (2500 acres), covered throughout its entire length by aqueous lands. In 1828 this society was induced to establish a colliery at an enormous expense (pit No. 1, called Richebé), at a little distance from the canal of Bray, at Nivelles, but, after several unfruitful attempts, was obliged to abandon

chemical literature of this country; this ircumstance can arise from no other cases than the presence of the gold artificially introduced. I would further cause than the presence of the gold artificially introduced. I would further can be completely succeeded in holding back the upper springs of water; there makes completely succeeded in holding back the upper springs of water; there makes the upper springs of water; there makes the upper springs of water; there makes the summary of the remain, however, 97 metres, about 108 yards, to bore to reach the coal measures, the sinking of which has been offerred from financial motives, but without doubt the work will be shortly recommenced. A second pit has been sunk by the same process and the same company near and old colliery, called Sainte Marie, No. 2. In this case it was required to sink an air-shaft through the watery beds of many alteration to the bind through the watery beds of many without the thickness of 107 metres, about 119 yards. This last work has perfectly succeeded; the cast-inout thising with which the pit is lined is perfectly succeeded; the cast-inout thising with which they it is lined is perfectly succeeded; the cast-inout thising with which they it is lined is perfectly succeeded; the cast-inout thising with which they it is lined is perfectly succeeded; the cast-inout thising with which they it is lined is perfectly succeeded; the cast-inout thising with which they it is lined is perfectly succeeded; the cast-inout thising with which they it is lined in perfectly succeeded; the cast-inout thising with which they it is lined is perfectly succeeded; the cast-inout thising with the proposal to revork the iron deposits of Kent and Susex, but I finish there are make the work of the proposal in the proposal inout the proposal inout the proposal inout the proposal independent of the pro

TREATMENT OF POOR COPPER ORES.

Sir,—In the Journal of Aug. 24 I observed two paragraphs on this important subject—one, the allusion to a new process, patented by Mr. Rodda, whrein a comparison was attempted between that gentleman's invention and mine. I have before me the specification of a patent granted to Mr. Richard Rodda, but this is evidently not the one meant. I find by a letter in an Australian paper that Mr. R. V. Rodda is a son of that gentleman, and his specification is not yet published. Until that document is published no one can gainsay the statements of Mr. Rodda or his agents. I can only wish him success; the field is very extensive, and in South Australia alone there is room for all.

The other paragraphs referred to are contained in the statements of the worthy Chairman to the shareholders of the English and Australian Copper Company at their recent meeting. Mr. Routh is represented to have said

worthy Chairman to the shareholders of the English and Australian Copper Company at their recent meeting. Mr. Routh is represented to have said that my process only contemplated reducing ores of as low a percentage as 17, and that I could not even do that without infringing Napier's patent, at all events from carbonate ores. Mr. Routh is not ignorant, because some correspondence has passed between us on this very point, that I have shown in the columns of your valuable Journal that ores of 1½ per cent. can be raised and reduced by my process at a very large profit. In the Journal of Oct. 13, 1860, I gave full particulars of our results upon upwards of 24,000 tons of ore, since then the quantity has been increased to near 40,000 tons, with even more favourable results. To that statement I would refer Mr. Routh and his shareholders for the truth of the matter. The directors of the Burra Burra Mines forwarded to me several parcels of their poor ores, and one parcel of their usual raisings (all of which were

The directors of the Burra Eurra Mines forwarded to me several parels of their poor ores, and one parcel of their usual raisings (all of which were too poor for the English and Australian Company to work); they appointed practical and scientific men to superintend and watch over the treatment of these ores by my processes at Alderley Edge. In consequence of the very favourable nature of the report of these three gentlemen thus appointed by them, they have applied to me for a license, and are about to establish works upon my system at their mines.

The English and Australian Company cannot smelt anything under 15 to 17 per cent. at the Burra Mines. Now, I am not anxious to interfere with their operations; all I propose at present to do is to take all below their limit, whatever it may be, and go down as low as 2½ per cent. I do not smelt, my only object is concentration. I have no smelting furnaces whatever, and can entirely dispense with coal. Napier's process is a smelting process, and in no way resembles mine. My objects are to assist the miners and the smelters; I assist the former by enabling them to concentrate their ores on the mine, so that they send twice or three times as much copper to market as they formerly did, in a highly concentrated state. All this extra metal will pass through the hands of the refiner, as it is no part of my processes to make fine copper. Both at home and abroad I wish to apply my processes to those ores that the usual smelting operations cannot touch; therefore all the copper made by my processes will be an absolute addition to the wealth of the nation, and will be of immense assistance to the mining interest. I hope soon to be in a position to present your readers with the results of extensive operations on years over coverible and other. the mining interest. I hope soon to be in a position to present your readers with the results of extensive operations on very poor Cornish and other ores.—Alderley Edge, Sept. 3. —— WM. HENDERSON.

AURIFEROUS IRON AND STEEL.

Sir,—In the *Mining Journal* of Aug. 17 I find a gratuitous notice of my patented process for improving the quality of iron and steel, and in the Journal of the 24th a letter from Mr. Webb, of Tipton, in which he quessourmal of the 24th a letter from Mr. Webb, of 1 ppon, in which is questions the correctness of the principles involved in my process. If that gentleman had taken the trouble to investigate the subject, and especially some of the laws that govern matter, and the combination of matter, it is highly probable his letter would not have appeared in print. The quantity of gold I recommend for general purposes is 1 part in 140,000, but the proportions may be varied. The subject of the divisibility and diffusibility of matter has obtained much investigation from the scientific and it is a subportions may be varied. The subject of the divisibility and diffusibility of matter has obtained much investigation from the scientific, and it is a subject full of interest, and of the highest importance, in a practical point of view. Mr. Webb's illustration of the drop of oil in the hogshead of distilled water is rather unfortunately selected for his argument. I do not propose to combine such matters as have little or no affinity, but such as have an intense affinity for each other. If Mr. Webb will take the trouble to mix a drop of sulphuric acid in his hogshead of distilled water, he will, in all probability, discover that every portion of the water has its fair share of the drop of acid; so it is with the drop of gold in the ton of iron. Gold in minute quantities has the property of diffusing itself in iron in a manner perfectly surprising, when these metals are in a liquid state.

Very beautiful illustrations exist of the diffusibility of matter in odour-iferous substances. For instance, a grain of musk placed in a room will

Very beautiful illustrations exist of the diffusibility of matter in odouriferous substances. For instance, a grain of musk placed in a room will
impregnate the entire atmosphere of the room with its scent, without any
apparent diminution of its bulk. Another instance I will mention of a
metallurgical kind—take a pile of lead ore finely ground and well dressed,
and containing \(\frac{1}{2}\) oc of gold to the ton, take a sample from various parts
of the pile, and assay the samples so taken, and the chances are that very
uniform results will be obtained, if the operation has been carefully conducted. We here see Nature carrying out the operation of mixing gold in
minute quantities in lead ores. In proposing to mix gold with iron in like
proportion, I am only following out the palpable laws of Nature, as exhibited in the instance I have mentioned. In reply to Mr. Webb's question,
so pointedly put—"I would ask Mr. Longmaid whether he is prepared to
state, as a chemist and metallurgist, that such an alloy can be artificially
produced?"—I am prepared to state that I can produce alloys of gold and
iron or steel with the same uniformity as is common in the manufacture of
iron and steel. Everyone acquainted with this most important manufacture is well aware that absolute uniformity does not exist, various circumstances interfere with perfect uniformity of results. My process is capable of producing the alloy of gold and iron, when proper attention is paid

cumstances interfere with perfect uniformity of results. My process is capable of producing the alloy of gold and iron, when proper attention is paid to the manipulation, of as uniform quality as is obtained in the ordinary manufacture of iron. I possess the means of determining whether there be gold in the iron or not with great facility. At the present moment there does not exist any iron or steel that contains gold except that made by my process, that I am aware of.

The most elaborate and careful analyses of all the iron ores of Great Britain have been conducted by gentlemen of the highest character as skilful manipulators; but I am not aware that in any one instance iron ores suitable for the manufacture of iron and steel have contained a particle of gold. There are sulphurets of iron that contain gold, but this description of ore is not used in smelting iron. Iron produced by my process is greatly improved in quality, and increased in specific gravity—in fact, I have produced iron of greater density than any I have ever seen recorded in the chemical literature of this country; this circumstance can arise from no other cause than the presence of the gold artificially introduced. I would further cause than the presence of the gold artificially introduced. I would further remark that my experiments have been made on a wholesale scale, without any alteration of the plant or mode of working, beyond putting the gold into the farnace.—London, Sept. 4.

W. LONGMAID.

tisfactory way of proving the relative merits of the two kinds of coal would be to state the quantity of each which has been taken by the Government during the past five years. Of these statistics I know nothing, but have no fear of the North showing the largest figures.

Sept. 4.

RATING OF MINES.

Sir.—It was only to-day that I had an opportunity of perusing the Journal of the 24th inst. I was forceably struck with the letter of "Coal Owner," respecting the mode of rating collieries to the poor in the way and mode which he wished to be adopted, to enable all coal proprietors and getarn Act passed to exempt all mines from being rated to the poor. I have been for the last 20 years connected with collieries, and I never experienced the annoyance which your correspondent intimates. Can the contrary where as responsed to recipied to the coal colleries to the poor in the way and make it is even proposed to provide the subject—one, the allusion to a new process, patented by Mr. Rodda, poor. I have been for the last 20 years connected with colleries, and I name in I have been for the last 20 years connected with colleries, and I name in I have been for the last 20 years connected with colleries, and I name in I have been for the last 20 years connected with colleries, and I name in I have been for the last 20 years connected with colleries, and I name I have been for the last 20 years connected with colleries, and I name I have been for the last 20 years connected with colleries, and I name I have been for the last 20 years connected with colleries, and I name I have been for the last 20 years connected with colleries, and I name I have been for the last 20 years connected with colleries, and I name I have been for the last 20 years connected with very any any and a last of the rock. This operation of sinking pits by boring, although the collection in handling years as the tooics of all the debries of the notice from incautious handling, sudden shocks, or incalculable resistances inherent in the coles, apparatus. In the expense of the public. - A NORTHERN IRONMASTER.

ON THE ORIGIN OF QUARTZ VEINS.

ON THE ORIGIN OF QUARTZ VEINS.

Sir.,—It is not very cautious on the part of your correspondent, "A. B.," to take it for granted that "the plutonic origin of quartz dykes cannot be disputed," for taking for granted any such thing, thus banishing all such searching enquiry as alone could elicit the truth, would tend to put a stop to all true progress in science. Most of your thinking readers may possibly feel inclined to be of opinion that your correspondent, "A. B.'s," chances of success in his attempt to revive a long-cherished hypothesis would have been all the more favourable if he could have stated that he possessed some knowledge of the chemical composition of the substances which he made the object of his enquiry and research; and he ought certainly to have added some information as to the whereabouts of the water before it "returned" and acted "its chemical part."

The chemical composition of minerals, and of the combination of such which occur in the shape of masses of rocks, and the paragenetic mutual

The chemical composition of minerals, and of the combination of such which occur in the shape of masses of rocks, and the paragenetic mutual relationship of such minerals, &c., have some time since been, and are still zealously being, made the object of anxious and careful researches; the results no doubt will be highly conducive to the advancement of true practically useful science, and by due attention being paid to chemical and physical laws, and by mathematical proportions not being lost sight of, we may fairly presume that our real reliable insight into the nature, &c., of rocks will, perhaps slowly but surely, become clearer and more extensive, the doctrines being fortified step by step, as it were, by a most scarching and doubting enquiry, such as takes nothing for granted that is not proved clearly, and we may unimately even venture to attempt obtaining a glimpse at the origin of rocks, when, it is to be hoped, it will become with all a matter of clear conviction what with most now is a matter of blind faith in one or another favourite hypothesis.—Sept. 3.

G. J. G.

VOLCANIC ACTION.

VOLCANIC ACTION.

Sir,—It would appear desirable that a clear logical definition be given of what is meant by "Volcanic Action" by those of your correspondents who write under that heading. Ætna, Vesuvius, &c., are well-known "volcanoes," but then the well-known fall of rocks at Goldau, in Switzerland, was also accompanied by "volcanic" phenomena. The intense frictional heat caused by the sliding down of an immense mass of "Nagelfluhe" rock changed all moisture into steam, and mud into dust, &c.; the former probably assisting in bursting the masses (stratum of rock was about 100 ft. in thickness); clouds of smoke (dust), combined with immense boulders, were hurled high up into the air, accompanied by flames of fire, &c. In a similar catsstrophe which occurred near Servez, Chamouny (Mount Blanc), in 1751, the movements and shiftings of and within the mass of rock were repeated for several weeks, accompanied by a noise far louder than thunder or heavy artillery, while immense clouds of smoke did rise, accompanied during daytime by a red fiery shine, and by bright flames at night. Twenty-five miles around the clouds did spread, strewing the ground with "ashes." The savan, Vitaliano Donati, was sent by the Academy to report upon the "new volcano;" he described the ashes to be the mere dust of crushed up rocks, clouds of which dust rose up again and again at every repeated shifting of the fallen mass. The strata then shifted had a very slight dip, and were calculated to amount to 250,000,000 cubical feet.—Sept. 3.

VOLCANIC ACTION.

VOLCANIC ACTION.

cubical feet.—Sept. 3.

VOLCANIC ACTION.

Sir.—I am delighted to see the controversy respecting the theory or volcanic action, ingenous rocks, sedimentary deposits, formation of quartz and mineral veins, &c., progressing. The Mining Journal is the only medium the miner has to see such subjects discussed. Lengthened reports and learned discussions in huge volumes are out of the power of many to procure, even supposing they had time to read the learned theories; and in lectures, excepting they are published, few are able to detect the errors advanced. I fully expected the subject would have been taken up by some of the professors who are constantly lecturing on these theoreticals; and that Mr. Hopkins would have been called to account for stating that the "igneous theory was nearly exploded." Is it that they have any doubts, or will the theory not bear discussion? Or is it they have so little practical train to bear them out in such suppositions? It cannot be that they are too learned to instruct the ignorant, or that they have issued their fad, and no one is to dispute their learned statements? For my part, I think we are greatly indebted to Mr. Lisabé for his goodly array of practical taient, brought forward from the Cork mining districts, and elsewhere in Ireland, to refute theories, and to show the erroneous description of the formations goes. There is no appearance of volcanic action in North Wales. The sections of the rocks, even on the surface, in many instances are quite incorrect; and those underground ridiculous. There is no displacement of the rocks or fornations but at the wails of the veins; and as to faults, there is no meaning in such a term as applied to the granites, whins, limestones, sandstones, green rocks, &c. The displacement of rock at some of the veins; and as to faults, there is no meaning in such a term as applied to the granites, whins, limestones, sandstones, green rocks, &c. The displacement of rock at some of the veins; and as to faults, there is no meaning in such a term and the dea

THE GEOLOGICAL FORMATION OF THE EARTH-No. IL.

logist examine the formation underneath the lava; it will be found the original rock, with distinct veins in it.

logist examine the formation underneath the lava; it will be found the original rock, with distinct veins in it.

A great deat has been said and written on the increase of temperature as we descend into the earth, as proved by Mr. Fox. I mined for Mr. Fox's father, and have travelled in mines and been concerned in their exavations to an extent equal to most living men, and the state of the increase of temperature in depth. We are told granite is the state of the increase of temperature in depth. We are told granite is the state of the control of the contr

ON BORING ENGINES, AS A MEANS OF SINKING SHAFTS.

ON BORING ENGINES, AS A MEANS OF SINKING SHAFTS. Sir,—Observing the remarks of Mr. Crease on sinking Cornish mines by machinery, I beg to express my opinion that for sinking shafts I consider machinery quite applicable. Boring levels I will pass for the present; as if it is successful with shafts, levels are certain to follow. Such application of machinery was suggested by Mr. Abbott and myself many years ago. It was afterwards remarked on by some other party, whose arguments I supported by a letter in the Journal. I have since had an opportunity of seeling in Somerset a machine-bored level, 5 ft. diameter, in killas rock, which I am prepared to show to any practical Cornish engineer. The boring was performed at about 6 in, per bour. The machine was defective; the cylinder being only 2 ft. long, difficulty was experienced in keeping it ahead as fast as the excavation was made, and, as a natural consequence, the cylinder end got knocked out. I do not now purpose detailing all its defects, but am perfectly satisfied I could have constructed an engine capable of boring a level of any required diameter, therefore in boring shafts by such means I have not the least doubt. The engine required should be simply that of the Cornish long-cylinder winding construction, with a main rod in the centre of the shaft, kept up to a proper speed, both in the lift and turning of the head, by gearing or otherwise, and provided with the means of boring 12 feet, at least, for every shift. It should carry a cast-iron head, free to turn on the rod, the ring and arms of which should be fitted with cast-steel cutters, changeable at pleasure, or when required for removal.

It has already been asked how the excavated debris is to be removed? Surely there is room enough in a 12-ft. shaft; allowing the main rods and guides to occupy a space of 3 ft. in the centre, there would then be spaces on each side forming segments of circles, each containing an area of about 40 ft., or equal to shafts of 6 ft. square. One of these could be placed the o

chanism would be constructed.—Sept. 4.

P.S. The engine I saw in Somerset had a brass cross-head (say) 1½ ton weight, much too penderous for the engine, and not provided with a sufficient number of cutters. I see no objection to a cast-iron head, the turning of which could be simply performed self-acting from the bottom or lowermost level. The engine would require to be quick in action, balanced by a heavy fly-wheel.

APPLICATION OF MACHINERY TO MINING.

APPLICATION OF MACHINERY TO MINING.

Sir,—By the remarks of "A Miner," in last week's Journal, I am puzzled to tell whether he writes most in hope of getting information or of showing his wit. I see he is rather satirical on me; but I would ask how is it he has arrived at the conclusion that I am not as much and as good a miner as himself? And if I am a miner, I ask you am I not adhering to my own line of business in writing you on the subject; indeed, I am particularly so, as a shareholder in Great Wheal Aired. Now, I much doubt "A Miner" being an underground miner; and suggest that his "boring, blasting, damming, and sinking" is of a different kind to that which does a mine good. I do not doubt he would like to know how to construct a machine to sink a shaft; one thing I will tell him, that it is easier to put a machine down 260 fms. than it is to get it up again. I am aware that the sailer to put a machine down 260 fms. than it is to get it up again. I am aware that the sum who have worked all their lives underground ought to have some opinion on the application of machinery to supersede their work; and I am also aware that some thirty years since, when the outery against threshing-machines took place, and farmers went to bed not knowing whether their farm buildings would be a heap of ruins or not, so prejudiced were the workmen of that day against machinery being employed to de their work. Mr. Thomass smith's letter might have been reasonable before the starting of this mine; but now that the mine is drained, and engines on the spot, the question is,—Is it not better to complete the machinery, and try the effect of the outlay of a few thousands more? Mr. Smith is in error, I think, as to Capt. Bugelhoie's opinion of the eastern ground; also, I am not aware that Mr. Hosking is a spirited miner, and carried on and bought shares in Great Wheal Fortnew when others were tired of it, and it we condemned, which mine, I need not tell you, I presume is some miles from his mills.

Mr. Ennor tells us "the lightily ext

on and bought shares in treat When I fortune when others were tired of it, and it was condemned, which mine, I need not tell you, I pressume is some miles from his mills.

Mr. Ennor tells us "he lightly esteems anonymous correspondents." He is not aware that I gave you permission to publish my name or not, as you thought proper. Mr. Eanor aays.—"It is folly to commence with a shaft 12 ft. or 14 ft. square in an untried mine." "That some of the shafts in Dolcoath should be cut down, but that the adventurers will not forego their dividends." This, in other words, amounts to this,—That neither a poor mine nor a good mine is to have the benefit of a good shaft. This remined me of a saying when I was a boy,—"He who asks shan't have; he who does not doesn't want." I doubt not that in some of the mines in the North there is to be found much that is wrong. Mr. Emnor claims for Cornishmen the improvement of their pumping-engines; but he forgets that it was forced on them by the high price of coals. Now, I am convinced that if they do not turn their attention more to their drawing, &c., in a flow years hence Cornwail will go down as a mining field. Mr. Emnor agrees with me as to the value of a machine for raising and lowering men; also the wisdom of large shafts, and high and wide levels. Mr. Hollow agrees with me as to the importance of a good shaft in the western part of the mine; whilst the agents of this mine, Capt. Trelease, and Capt. Grose, all concur in the chance of a good discovery in the eastern part of the mine. Mr. Crease offers to put down a shaft for a stated sum in a given time; let him do it, and say,—"No cure, no pay." I observe a remark is made, that in Great Work Mr. Crease offers to put down a shaft for a stated sum in a given time; let him do it, and say,—"No cure, no pay." I observe a remark is made, that in Great Work Mr. Crease offers to put down a shaft for a state sum in a given time; let him do it, and say,—"No cure, no pay." I lower to ask, why is this difference? I should be told fikt me are

DISCOVERY OF GOLD IN THE VALLEY OF THE SASKATCHEWAN.

SASKATCHEWAN.

SIR,—I have just received a letter from the Red River colony, in British North America, announcing the discovery of a valuable gold field by a party of American miners from California, on the north branch of the Saskatchewan. This intelligence I see confirmed in recent papers published at St. Paul's, Minnesota, and it can, therefore, be relied on as accurate. As the country watered by the Saskatchewan is drained by streams which have a common origin in the same mountain range with the auriferous rivers of British Columbia, the two river systems approaching at their source and in parts actually interlocking, there is nothing in the sileged discoveries which can be considered at all improbable, but, on the contrary, many circumstances which combine to favour it. My informant at the Red Elver colony anticipates, not unnaturally, a general "rush" of Americans from Minnesota and the neighbouring states, should "the Saskatchewan gold fields" justify the description which has been given of them in the settlement. In the present critical state of our relations with the Northern Republic the subject will demand the immediate attention of our Government.

From the London American.

state of our relations with the Northern Republic the subject will demand the immediate attention of our Government.

A. K. ISBUTEN.

North of Minnesota, under the dominion of the British Crown, is a vast fertile region, which, until within the past few years, has been under the supervision of the Hudson's Bay Fur Company. Except to a few bold pioneers or trappers in the employ of that company, he immense basins of the Saskatchevan and Red Rivers have been comparatively unknown. Latterly the Canadian Government, impressed with the conviction that this portion of British North America was one of great importance, has fitted out several exploring parties to visited the country and report upon its resources. The most extensive of these parties was led by Frof. Hind, of the University College, Toronto. On his return he read several valuable papers descriptive of his observations before the Canadian Institute, and afterwards collected these papers in a volume, which was published by the Canadian Government. In this report Prof. Hind informs us that in the valleys of the two rivers, the Red and the Sackatchewan, there are tracts of fertile land, mostly prairie, nearly as large as all Europe. The climate is not different from that of the greater portion of Canada. But what we wish particularly to call theattention of our readers to at the present time is the fact that gold has recently been discovered on the north fork on the Saskatchewan, and along its tributaries for 500 or 600 miles east of the Rocky Mountains. Two gentlemen, who have had a great deal of experience in California, arrived, not long since, in St. Paul, Minnesota, with between \$1000 and \$2000 worth of the precious metal, taken from the mines in that region. These gentlemen state that gold is found there in sufficient quantities to pay for the labour of gathering. If this be the case it will soon be confirmed, and will offer another inducement to the enterprising and industrious, who wish to leave the crowded cities of Europe for a home on the western

LLANHARRY COAL AND IRON MINES.

LLANHARRY COAL AND IRON MINES.

Sir.,—I have known the Llanharry Mines for years, and was much pleased with your announcement in last week's Journal to the effect of a company being formed to work them, and beg to say that, in addition to the fine deposit of hematite iron ore, there is all the south outcrop, clay ironstones, fre-clay, and limestone, with eight seams of erry fine coal. I was applied to some time since, by a party who wanted the property, to state what I considered the cost of making a ton of iron would be if works were erected on the property, when I gave the following figures, and I am confident it will be done very soon by some party, as it is impossible for such a property to remain idle:—

To make a ton of iron at Llanharry Coal and Iron Mines will take—Coal, 2 tons 10 cwts. (at cost price, 5-1, 12s. 6d.: limestone, 10 cwts. (2s.), ls.: labour, 5s.: office charges, &c., 5s. 6d. = 11. 14s.

I have given more coal than will be required, and considerably more iron ore, were smelting-works on the property, which would not do to ship to other more distant ports. The South Frewer vein of coal can be cut and put into trams underground at 11d, per tors, this coal is 11 feet thick, and gives a fine ash.

If the owner of the lease had taken offers he received years ago the property would have been well worked; himself better off, the district in a flourishing state, and the company one of the best paying on the Mining Journal List. It is said that the person who granted him the lease squeezed some thousands out of him, and that with other bad matters and things, portors, &c., elsewhere, have caused the delay.

I conclude by saying I hope this is not a faise alarm, and that we shall soon see the mines at work, and the company prosper, as I believe it must.

J. Viatrita.

Llanharry, Giamorydashire, Sept. 5.

FLINTSHIRE MINING.

FLINTSHIRE MINING.

SIR,—The TALARGOCH being the first mine of which I proposed, in a former letter, giving subsequently a short description; and as my best endeavours will be directed chiefly in pointing out to capitalists the confined line of demarcation between the geological strata conducive to its minera productiveness, and that in which the sound practical miner can behold line of demarcation between the geological strata conducive to its mineral productiveness, and that in which the sound practical miner can behold only with sorrow or distrust the great amount of capital continually being swallowed up, without the remotest chance of success, I shall, I think, find but little difficuly in explaining antisactorily this old, celebrated father of mines as the nucleus of the northern extremity of the district, from which I may continue to pursue my path southward. I shall content myself, therefore, with making only a few general remarks, more particularly as there are no operations of which I am aware too far to the west, in the immediate locality, to require a word of caution. These celebrated mines are situated about one-third of a mile from the Prestatyn Station (near Rhyl, on the Chester and Holyhead Railway), and it is a tasted on reliable information that they have been in profitable operation for the last two centuries. A careful surface inspection of the vast ples and hillocks excavated from the workings beneath would appear, certainly, a convincing testimony, both as regards the time and the vast riches derived from them. We know that within the last few years they have returned upwards of 600 tons of lead ore to market in a single month; and with the extensive appliances now available, to which is being added a new 100-in. cylinder pumping engine, it is probable they may continue for years to come. The geological position is directly at the extremity of a chain of hills extending in broken succession to the great Minera Mines, and immediately contiguous to the coal measures, which run morth and south in a comparatively similar direction. It is on these circumstances chiefly, and combined with other causes, that I purpose establishing my hypothesis, and on which I venture to challenge an instance of deviation; for, though an exception or two may appear, they are of a very trivian nature, readily accounted for, and should tend rather as a landmark of caution than, as they too

of a tree), being the natural media by which it has become unargonized at the component it is frequently found that large deposits of ore are discovered in proximity, though apparently disconnected with the vein, which by the miners are termed "belies" of ore.

In speculating on, and to account for, the causes likely to have produced the great changes manifested in the secret operations of Nature, we are left in a great measure to the resources of our imagination, backed, of course, by a close observance of those laws which are held unchangeable, and a keen regard to the book of Nature as disclosed by mining into the bowels of Mother Earth. To avoid technical phrases, I presume most if not all of your numerous readers are prepared to admit the existence of the generation of the most powerful explosive agents within the crust of the globe, producing in the arrangements of Nature the utmost contention and terrific disturbances. We may imagine, then, at long and distinct periods the convulsive dislocation and upheaving of the sperincumbent masses, causing in some cases fractures of great magnitude, and in other sthose of minor importance, but all becoming the vents for the emission of combustible and other gases, which may have been the most likely to form the chief combined media of those beautiful brilliant cube deposits of lead which have hitherto baffed the chemical skill of man. We can imagine a succession of boundless convulsions, after the lapse of ages of repose, breaking again and again principally through the same huge outlets by means of the weakened crust, before the deposits of metalliferous and other compounds had comented or sealed up the first great damage, thus from time to time forming and breaking up the structure, causing those caverns so common in the sides of this lode, and which have afterwards become filled with metal deposits, being together continually fed by the previously confined gases and metalliferous compounds by means of which they are enriched, and finally emerging from the great

DOLGELLY MINING DISTRICT, NORTH WALES.

.—Having recently come from the above district, it may be interesting to many readers to know what is doing there. During the gold mania in 1855 it was " your readers to know what is doing there. During the gold mania in 1855 it was "all cry, and little woot;" it certainly is reversed now, being "all woot, and no cry," Success is the rule, and not the exception. At CLOAU GOLD MINE, St. David's lode is being sunk upon, and a rise being put up from the deep cross-cut 30 fms. from surface. They have visible gold in the lode, not only in the roof of the shallow level, but also in the sink and in the rise; the richness at these points show, without doubt, but also in the sink and in the rise; the richness at these points show, without doubt, that the ore ground laid open will, without further discoveries, last for years. The returns of gold are regular, and can be increased with an increase of machinery; 9 lbs. weight of pure gold was forwarded to the London office on Saturday, the result of a fortnight's work. Capt. John Parry, the manager, is a most intelligent man, and feels a pleasure in showing the works. No secrecy is observed; and after seeing and feeling the large quantities of gold in the quartz, and the cheap mode of extraction, the most prejudiced must be satisfied as to the fact that the Dolgelly district is as rich in gold quartz reefs as Australia and Californis.

The next unine at work to the follows is the Tureway Survey.

satisfied as to the rate that the Logari is the Imperial. Silver-Lead and Copper Mine, under the able superintendence of the managing director, Mr. Josiah Harris. Gold is not being worked for here, although there cannot be a reasonable doubt but that the Clogar gold lode runs through the property. The mine is being worked for lead and copper upon the Cornish system, with undoubted prospects of success. Two shafts are being sunk: Joe's shaft is down 17 fms. and well timbered, and at the 20 the lode will be driven upon; Fanny's shaft is down 7 fms, and will take the lode at the 10. Most favourable indications have already been seen. System and perseverance is the order of the day here.

favourable indications have already been seen. System and persaverance is the order of the day here.

The PRINCE OF WALES MINE is below the Imperial, on the same mountain, and is worked by a Sheffield company. For years past nothing seems to have been done here but driving long levels. Some masterly lodes have been met with, but have never been driven upon to prove them. Some very fine gold specimes have been obtained from this mine; I hear a gentleman (Mr. Moon) is about trying his band to extract it upon a large scale. The gold of this mine is associated with lead and blende, being quite different from the Clogan. The operations of extracting will be watched with much interest. At the Car Man Selfenium Mine some four men are at work, opening up a most promising locking locking tode for gold.

sising looking lode for gold.

The CAE Gwim Mine has been purchased by Mr. Wilkins, and will shortly be put to rork. This was the seat of Mr. Chorus Lowe's operations in 1835.

At the Anna Mana Mine very little is being done. It is being worked under the annacement of Mr. Simpen.

At the ANNA MARIA ANNA PRINCE AND ANNA MARIA MAR

chines, which cost, I think, about 1600L, have been sold to the Ciogau Gold Mine for 30L, where they are now successfully at work.

Tink-I-ADDM Mins: This is a colebrated silver-lead mine, belonging to Mr. Winstanley. Some of the dressed ore contains upwards of 400 czs. of silver to the ton. It is being worked upon a moderate scale with success.

The GLASTER COPPER MINE is being and has been worked with great success for five years. The ore is of poor quality, but in great abundance. No lode can be seen; it as an immense bunch, and is being worked away in chambers of 30 to 40 ft. wide. It is a remarkable deposit, and well worth being seen by any person interested in geology.

SOVEREIGN MINE: This can hardly be called a mine. The fortunate possessor, Mr. Josiah Harris, who resided at Dolgelly about six years since, but now of Devonshire, has only had a grant from the Crown three months, during which time he has made a most valuable discovery of copper ore. The lode within 2 fms. of the surface is worth 40L per fathom, and richer as it goes down. No one is more deserving of success; during his three years' residence here his candour, perseverance, ability, and benevolence to the poor won him the respect of all.

At Cross Foxes Inon Mins, Messrs. Townsend and Wood are raising considerable quantities of iron ore, and are building an extensive shipping quay at Penmene Pool.

This important district is proving its mineral wealth daily, and ere long will rank with the best in Cornwall.—Mining Exchange, London, Sept. 4.

F. G. S.

THE MOLD LEAD MINING DISTRICT.

THE MOLD LEAD MINING DISTRICT.

Sir.—I noticed in the Journal of last Saturday that "a party of gentlemen are about to commence operations at the Gworn-y-Mynedd Mine, within 1½ mile of Mold, with a capital of about 10,000/." Whether that sum will be sufficient to develope the concern remains to be proved; however, I believe it to be a good speculation, and wish the party success in the undertaking. Then we are informed that "close to this mine lies tood and substantial engiles, buildings, &c., that will enable the proprietors" (with cash) to carry out the mine more extensively." To the whole of which I readily subscribe, subsequently, we are told—"The sinking of the engine-shaft 20 fms. deepr., and the bottom level extended out, would, I feel certain, after personal inspection, hay open advantage and the engine-shaft 20 fms. deepr., and the bottom level extended out, would, I feel certain "that "personal inspection" has not enabled my friend to form a proper estimate of the probable capabilities of the future of this mine—that any person should advise "the sinking of the engine-shaft." 13 fms. alternation, and the remaining the sharten ground, on the credit of what was seen by "personal inspection" has not a least into the "heading of the flat," and then drive a level from 50 to 60 fms. in dead barren ground, on the credit of what was seen by "personal inspection 3 fms. above the back of the deepest level" is not accurate—in fact, it is a positive proof of the want worky of development, and, if properly developed, I feel great condidence as to the reall; without "sinking the engine-shaft." Moreover, if some of those points had been operated on which I strongly pressed at the commencement, I feel confident that the mine would be at this time in full operation, and the position of the company far different.

Fron Isa Mine, Sept. 4.

ASHBURTON UNITED MINING COMPANY.

ASHBURTON UNITED MINING COMPANY.

Sir.,—Having known Ashburton Mine for as long as I can remember, and also known the quantity of tin returned by former workers, under the most injudicious system of management that could possibly have been adopted, I felt pleased when I heard of that energetic man, Mr. Ennor, having taken it up, and that he offered to erect a 60-inch engine and fork the mine to the bottom, and raise 10 tons of tin, and put up 20 heads of water-stamps for 6000!. I then thought he offered to do what he could not perform, and I watched his proceedings narrowly; and, to my great surprise, I not only from that he erected a 60-in. engine, and forked the water within the six months, but he also relied about 20 tons of tin, and all for less than 6000!. I remember Mr. Ennor saying at the last meeting he attended that he would sink the engine-shaft 20 fms. a year, and he did not think above one or two more calls would be wanted. At this time Mr. Ennor made some objection to the cash account, as not being strictly kept in accordance to the rules he had framed. He was then opposed by the late elected committeemen; he then resigned. His resignation was fatal to the shareholders. They had the right main in the right place, but did not know how to keep him. I have daily watched its progress since, and what is the result? No 20 fms. such in the engine-shaft annually. Some shareholder last week openly stated that the shaft is only about 20 fms. deeper than when Mr. Ennor left, after a lapse of nearly four years; whereas Mr. Ennor, to perform what he offered to do, would have sunk the mine 80 fms. It is well known to all that Mr. Ennor its a cautious man, ever on his guard not to say what he cannot perform. As a proof that he was right, I will call the reader's sitention to Capt. Webb, who has sunk a shaft at Great Crinnis Mine 120 fms. deep since Mr. Ennor left Ashburton United.

I noticed in last week's Journal that Captain Candy said they can sink as much as 30 fathoms a-year at Cuddre engine-shaft, below the

ASHBURTON UNITED MINES-STEAM-STAMPS.

ASHBURTON UNITED MINES—STEAM-STAMPS.

SIR,—Under this heading, a correspondent in last week's Journal has very properly drawn the attention of the shareholders to the very inefficient mode of preparing the abundant supply of tinstuff on this mine for the market. There appears to be no question but that a large return of tin might be made with proper management, but let me ask of what possible use is the very best and most powerful water-wheel, with even a hundred stamps heads, without water to drive the wheel, which is the case here, except when there is a heavy rain, and from the water obtained by an expensive mode of pumping, the both together not equal to the quantity needed for three or four months in the year? Thus, instead of being able to look forward to dividends being paid, calls must be anticipated. The correctness of the above statement will be fully seen by any one who will take the trouble to enquire for himself on the mine. The committee appear to be losing the best part of the year for getting up steam-stamps; perhaps as the winter closes in upon us, and the erection of them will coat from 30 to 40 per cent. more than at present, they will be proceeded with. There used to be bi-monthly meetings of the shareholders called—the last was held on June 7, the next is fixed for Sept. 25. Thus, while a greater promptness of action is needed, a longer interval than usual takes place between the meetings. There cannot cortainly be any difficulty in calling a special meeting of the shareholders on the mine to give the necessary vote for the erections, if such be required, and at that meeting much useful information might be elicited from the resident agents, who must certainly know more of the requirements of the mine than those who only visit it occasionally; and the shareholders would have an opportunity of enquiring into the state of affairs for themselves.

ANOTHER SHAREHOLDER FROM THE COMMENCEMENT.

BOTTLE HILL MINE.

BOTTLE HILL MINE.

Sim,—The Journal of last Saturday contains a letter signed "Veritas," the purport of which is to commend to public notice several mines of which I have some knowledge; and with respect to one of them (Bottle Hill) I beg to state a few facts, which may, perhaps, make "Veritas" cease to wonder why it is neglected by the public. When the present company began to work the mine it was calculated upon raising 10 tons of the per month, which, at the price of tin at that time, would leave a profit of from 400l, to 500l, per month. The correspondent of Truro also spoke of it in glowing terms, anying that the mine was full of tin, and that the projectors had added fresh larrels to their fame by introducing it to the public. Mr. James Crofts, also, wrote in eulogistic language, averring that" success in this mine was sure, and dividends were certain." Other commendatory notices have appeared from time to time; and, as a result of such statements, shares went up to double the price at which they were issued, and at that rate I was unfortunate enough to purchase some. Now, if "Veritas" will compare past promises and expectations with present results, he will see the reason why the shares are at a dead level, nowithstanding the 17 tons of the to be sold in a few weeks. Some of the shareholders have great confidence in Capt. Eddy; but whatever practical skill that gentieman may bring to bear upon the operations in the mine, he possesses no talismantic power to transmute base earth into precious ore; neither does he possess an infallible judgment, as evinced in his reports.—Sept. 3.

NORDERY MENDERS NEEDERS AND NEEDERS NEED

NORTH TRESKERBY MINING COMPANY.

A general meeting of shareholders was held at the account-h Mr. B. MATTHEWS (the purser) in the chair.

The CHAIRMAN moved that the accounts as presented and examined be adopted. This having been seconded by Mr. Samrson Waters, was unanimously carried.

Mr. F. Paxon (the manager) then read his report on the mine. After detailing the workings, it states that "We shall sample at our usual time 320 tons of similar produce copper or as the last, and not withstanding the low standard of the ores now credited, we have made a profit of 3201. 12s. 4d., besides having considerably increased our twork operations. With the 320 tons of ore to be sampled, and tin aiready sold, we shall at our next meeting of adventurers show a still greater profit, and in doing this we have no hesitation in saying that our discoveries have been twice as much as we shall sali for the time mentioned."

no hesitation in saying that our discoveries have been twice as much as we shall sail for the time mentioned."

Mr. Nickoll said that all must be well pleased with the manager's report, as it plainly showed that their prospects were gradually improving, and that the mine was being worked with energy and in a miner-like manner, and before long dividends would not be declared. Before, however, the report be adopted, he would like to sak their mentage one question, which was in reference to the depth of the cross-out that would be put out to intersect the middle lode at Waters's shaft.

Mr. Expall: and as these meetings were, be thought, the proper place for having discussions relative to the working of the mine, and especially as Mr. Pryor was always and the sum of the mine and especially as Mr. Pryor was always could be sunk or otherwise, and why not sink it as a sump-shaft, and open up ground faster? Had this been done two years since they would have seen a great deal more of the mine, but he did not refer to the operations that had been adopted since the mine had been under its present management.

Mr. Pryor, in reply to Mr. Kendall, said that his remarks were very proper, but be must decline dating back further than when he took the management. To sink Highburrow shaft, when enabled to do so dry, was his intention. It had been already sunk as far as the water would allow, but to sink two sumps within a distance of only 18 fathous of each other would involve an expense which he did not consider they were justified in locurring. The shareholders must also bear in mind that hitherto they had been enabled to sink the sump-shaft 2 imas per month, which was very important. Two materials as unum-shaft 2 imas per month, which was very important. Two materials as unum-shaft 2 imas per month, which was very important. Two materials as unum-shaft 2 imas per month, which was very important. Two materials as unum-shaft 2 imas per month, which was very important.

manner must necessarily be slow. His object to pursue would be to adhere to the sinking of the sump-shaft as fast as it was possible to be done, having regard to due economy, and proceed to open up the levels as fast as possible, without even waiting to cut plat, &c. He should also continue sinking Tresidder's shaft, which is upwards of 100 fms from the sump-shaft, and which he had referred to in his report. With respect to the question asked by Mr. Nicholl, he (Mr. Pryor) stated that the cross-cut would be 16 fms. below the deep level, and they calculated to have 11 fms. to drive to intersect the lode. Mr. Waters considered that this discussion had a very desirable effect, and was much pleased with the manner in which the manager had so ably answered the different points mooted. He observed it must be very gratifying to all to find their samplings in every respect horne out by the reports. He was fully satisfied with the mine, and with the system adopted by the present manager. He presumed that at no distant day the purser would have to draw dividend cheques and distribute them at such agreeable meetings at the present.

purser would have to draw dividend cheques and distribute them at such agreeable meetings at the present.

Mr. Paxon said to show that they had opened up the mine, and had borne our exports, he might state that they should leave out at their next sampling 60 tons of copper ores although now broken, and if they estimated 50007, worth of ore and tin discovered during the last two months it would be quite within the mark. These remarks were well received by the shareholders.

LOWER TALDRWS SLATE COMPANY.

instead of which he had subsequently understood the purchase had been effected by paid-up shares.

The CHAIIMAN said that 4000% had been taken in shares, which showed the confidence the vendors had in the result of the undertaking.

Mr. G. S. FULLER, the company's managing engineer, in answer to questions, stated that the present demand for slate far exceeded the supply, and that during the last year there had been a considerable rise in the value of slates. He could inform proprietors that their quarry did not contain any inferior description of slates; they were all of the first quality, having made them as large as "duchesses." With regard to the peat, that was found in very large quantities lying over the slate.

The meeting was then adjourned till this day.

RAILWAY PASSENGERS' ASSURANCE COMPANY.

RAILWAY PASSENGERS' ASSURANCE COMPANY.

The twenty-fourth half-yearly meeting of shareholders was held at the company's offices, Cornhill, on Wednesday,—Mr. James Clar, M.P., in the chair.

Mr. W. J. Vian (the secretary) read the advertisement convening the meeting. The report of the directors stated that the income of the company was—For railway accident assurances, 22, 4544. 148.—

In all, 25,6342. 118. 104., against 19,8007. 5s. 1d. in the same period of last year, showing an increase of nearly 30 per cent. The amount received in cash was 23,2622. 12s. 7d., and this with 2227. 13s. 9d. for interest on investments, added to the balance from the previous half-year, forms the sum of 34,4387. 17s. to the credit of the revenue account. Against this the working expenses, commission, and Government duty are charged, amounting to 76354. 10s. 11d., and 14,6624. 5s. 9d. paid for compensation. After payment of the interest to the proprietors, and setting saide 5001, for the liquidation of the preliminary expenses, a balance in hand and invested is shown of 11,2887. 7s. 1d., to which must be added the amount due from clearing-house and agents, 23711. 19s. 3d., forming a grand total of 13,6607. 6s. 4d. to be carried forward to the current half-year. From this sum interest on their capital to June 30 will be paid to the proprietors, at the usual rate of 4 per cent. per annum, and the remainder carried forward to moet the risks on custanding policies.

forming a srand total of 13,660. 6s. 4d. to be essential forward to the convent have very form this sum interest on their capital to Jone 30 will be paid to the proprietors, at the usual rate of 4 per cont. per annum, and the remainder carried forward to meet the risks on custanding policies.

The CHAIDMAN had no doubt that the chief thing which had struck proprietors in perming the report of the directors was the gratifying circumstance that there was a very considerable in every class of the company's business. With regard to the single and doubt-journess in every class of the company's business. With regard to the single and doubt-journess in every class of the company's business. With regard to the single and doubt-journess in every class of the company's business, showed a very conjuderable in the policies granted to persons who previously only insured against railway accidents, giving quite a different class of business, showed a very considerable imprevement. He was always exceedingly unwilling—ever to say anything in the nature of congratulation in enterprises such as theirs, thinking that the congratulation was always best when the facts spoke for themselves in the very intelligible shape of increased dividends to proprietors. Although he had been told a Chairman ought to be rather more sanguine in his anticipations of success, yet he certainty could never see any reason for obstreperous congratulation, so long is they only received per cent, as a remuneration for the capital invested. It should, however, be recollected that they were in a position at the present half-yearly meeting, if the deed permitted it, to have given a small bounts, having made during that period sufficient profits. But that could only be done at Christmas. He was exceedingly unwilling to class of business was a circumstance which justified the assumption that received profits and the company had been a gradual and considerable increase not only in one but in every class of business was a circumstance which justified the assumpti

cessary to alter the terms of the policy. He concluded by moving the adoption of the report and accounts.

Mr. Girles seconded the resolution, which, without discussion, was put and carried manimously.—A vote of thanks to the Chairman and directors was then passed.

The Chairman, on behalf of the board, thanked the proprietors for their renewed expression of confidence. He could assure them that they had hitherto paid the utmost possible attention to the business of the company, and that they would continue to do so to the best of their power. In his opening remarks he had omitted to allude to the fact that the company would be gainers hereafter from a change made in the Stamp Act, which last year had contrarily affected them. By some mistake that and other similar companies were obliged to pay stamp duty upon all renewals of policies. It was his duty to explain to the Chanceller of the Exchequer how exceedingly unjust such an arrangement was, and how much more money such companies paid in proportion to fire and life offices. He felt quite sure that no man was more anxious to help the public resources than the present Chancellor of the Exchequer, and it was greatly to his credit that, although it involved some sacrifice, it was only necessary to call his attention to the fact toget the mistake corrected. Now, therefore, they paid only a stamp duty once for all, the renewal of the policy paying nothing. Having again thanked the meeting for the compliment paid to the board, the proceedings terminated.

TRUTH'S ECHOES; OR SAYINGS AND DOINGS IN MINING.

row and the policy paying nothing. Having again thanked the meeting for the compiliment paid to the board, the proceedings terminated.

TRUTH'S ECHOES; OR SAYINGS AND DOINGS IN MINING. An evident improvement has taken place in the Mining Share Market, and considerable antimation prevailed during the week, giving a bacyancy to most of the leading and antimation prevailed during the week, giving a bacyancy to most of the leading and the process of the process of the process of the leading and the process of the process of the dealth of the daily enquiries for shares, are among the many auxiliaries for the establishment of a sound and steady mining market, and these are apparently uniting; and it is fairly presumed that far better prospects are now before the mining community than experienced for many months past. The amount of dividends declared during the month of mines 9500f., and the remainder by Cornish tin and copper mines.

Transactions have taken place in Wart Stroxe, Eart Baster, Cook's Kriens, Sourra Flaxors, Copyan Hall, Strax Park, and a few others, and generally at improved rates.

—Mangarate, Proviptexes, Gurar Forturs, and Roswanize Curran shares have a bount enquired for mine of the process of the proces

From Mr. Edward Cooke:—Although there has been a fair amount of business done during the week, the market has not yet assumed that steady character which may be termed healthy. It is, however, becoming more sensitive, and responds quicker to any improvements in mines than has been observable for a long time past. The public are evincing a desire for good dividend and progressive mines for investment, and there never was a more favourable opportunity than the present when good mines are selling at very reasonable rates, and the market tolerably clear of spurious schemes, still there are great causes for caution on the part of those who are unacquainted with localities, and the financial position of the various mines that may attract the notice of the intending investor. Select a good district, ascertain the financial state of the mines, together with the respectability of the management of those in which it is intended to invest in beforehand. If these rules were strictly observed, very much loss of money and disappointment would be prevented, and mining would stand much higher in the public estimation than it now does. Wheal Bullean West Seron, and many other of our great mines did not become rich without some outlay; West Seton, for instance, cost some 18,0001. to 20,0000, before it became a dividend property, and many original holders bend on their interest, feeling confident that they would in the end become amply rewarded for their outlay and peraverance. The result has proved that they were correct, and we now say to our friends who are holders in Wheal Moyle will not fail to remunerate those who are those who stick to it, and Wheal Moyle will not fail to remunerate those who are content to wait its fair development. Both time and money, however, are required for the purpose of opening up good mines. The shareholders in Wheal Moyle will not fail to remunerate those who are content to wait its fair development. Both time and money, however, are required for the purpose of opening up good mines. The sharehol the intending investor. Select a good district, ascertain the financial state of the mines, together with the respectability of the management of those in which it is intended to invest in beforehand. If these rules were strictly observed, very much loss of money and disappointment would be prevented, and mining would stand much higher in the public estimation than it now does. Wieral Buller, West Skrow, and many other of our great mines did not become rich without some outlay; Yeek Steon, for instance, cost some 18,0001. to 20,0001, before it became a dividend property, and many original holders in our friends who are holders in Wheal Morte do not be disheartened by a call of s. per share. The company is in a sound financial position, and the situation of your property is second to none in the county of Cornwall. The district has never failed yet to reward those who sitck to it, and Wheal Moyle will not fail to remunerate those who are content to wait its fair devolopment. Both time and money, however, are required for the purpose of opening up good mines. The shareholders in Wheal Moyle will be materially assisted by the returns which, we believe, will be adequated to bring the mine into a paying state. East Carabon is still progressing, and we can only results to the propose of opening up good mines. The shareholders in Wheal Moyle will be materially assisted by the returns which, we believe, will be adequated to bring the mine into a paying state. East Carabon is still progressing, and we can only results believe the propose of opening up good mines. The shareholders in Wheal Moyle will be materially assisted by the returns which, we believe, will be adequated to bring the past three would be a constant of the stream of the shareholders in the standard of the shareholders in the standard of the standard of the shareholders in the standard of the shareholders in the standard of the shareholders in the standard of the standard of the shareholders in the standard of the shareholders in the standard of the stan

vicinity—the East Del Rey Mining Company, certainly commences operations under encouraging circumstances, and with ample grounds for anticipating large and lasting profits. The property is of ample extent for mining operations, being 3 miles long and 1½ wide, the formation and character of the ground being in every respect similar to the celebrated Morro Velho Mine, from which a large proportion of the profits of the St. John del Rey Company have been derived, whilst the facilities for working the lodes are said to be even greater than at the St. John del Rey Mines. The capital has been fixed at 75,000, in shares of 31. each, and, as the profits of the St. John del Rey Company are about 50001, per month, the percentage which may fairly be locked forward to in the shape of dividends can be readily calculated. The outlay necessary will probably be small, and the property has been ceded to the company under an agreement for a 50 years' lease. It is remarked as a favourable feature that, with the exception of a sum of 25001, which is to be paid to the grautor are made entirely contingent upon the success of the enterprise. When the shareholders shall have received 10,0001, in dividends, a like sum is to be paid to the grautor, who is likewise to received a second and final sum of 10,0001. after 20,0001, shall have been received in dividends by the proprietors. A royaity of the state of the state of the proprietors. to be paid at once, and when is made neutrely contingent upon the success of the sc., the payments to the grantor are made entirely contingent upon the success of the enterprise. When the shareholders shall have received 10,000/, in dividends, a like sum is to be paid to the grantor, who is likewise to receive a second and final sum of 10,000/, after 20,000/, shall have been received in dividends by the proprietors. A royalty of 3 per cent. Is also to be paid. An unusually favourable report has been received from Capt. Wm. Treloar, who will superintend the works. This undertaking differs from an ordinarily gold mining project, inasmuch as, like the St. John del Rey Company, it relies, not upon a discovery of gold veins or bunches, but upon the application of a great mechanical power to auriferous lodes aiready laid bare, and long worked at a profit. Capt. Treloar is a Cornishman, who has had 20 years' experience in Brazil, eight of which he has been in the service of the St. John del Rey Company, so that every confidence may be placed in his opinion. He states that the estate comprises the Emity Mine, which lies between the Morror Velho and the Culaba, and consequently is in a great mining locality, and in a populous neighbourhood, having the city of Sabara, the towns of Calthe and St. Luzia, another villages of Culaba, Lappa, Pomper, Morrovermelho, Rapozza, and others at short distances. Its position, therefore, as regards provisions, materials, and native labour, is all that can be desired. All the valleys and ravines about the place have been extensively washed by the ancients, and tradition asserts that the city of Sabara originated from the great wealth taken out from the washings and digrings of the neighbourhood. The Capao Mine, to the west of the Emily, is likewise a rich mine. A water-course from the River Guyinho will be available as the motive-power for machinery, both at Emily and Capao. The greatest, almost the sole, difficulty which Brazil has to contend with it the obtaining of supplies and labou

Mining Correspondence.

ARERDOVEY.—A. Eds: The ground in the cross-cut in the 42 is much the same as last reported. The men have been rengaged easing and dividing the shaft, which they alwa no move completed. The stope in back of the Eg. port of witner, on main lode, is produced to the complete of the complet

or ore per im.; the 10, cast of atto, is speciating y, ton per im. The lattic is worth 121. per fm., but the ground is much harder for driving. We have laid down the dressing-floors, are daily putting some good ore to pile, and shall be ready to sample the quantity named by us the next Camborne sampling, which is this day fortnight. A great number of gentlemen and sgents visited the mine yesterday, and much admired the gossan and the pretty piles of copper ore.

CASTLEWARD UNITED.—Evan Hopkins, Aug. 31: On my arrival at the mine on Aug. 22, I found that Capt Tabb had just completed the communication between the shaft and the winze in the 20. On reference to the rough section, which accompanied my reproducted Dec. 8, 1880, when I recommended the immediate sinking of the shaft to the 20 and 30, I indicated the probable position of the orey ground in depth with the branches, &c., from the shaft towards the south-east. I went underground with Capt. Tabb, and had the pleasure of seeing what I had predicted—a good orey lode, containing from 12 to 15 cwts. of lead ore per fm., both back and bottom from the shaft as far as they have driven to the south-east, (say) about 15 fms.; the ground in this direction is more favourable in the 20 than it was in the 10, and appears to improve in depth. Capt. Tabb will continue the drivings outh-east until he meets with a disturbing joint, when the drivings will be varied according to the character of the conditions presented; the shaft must be completed for drawing to the 20 forthwith, and preparations made to sink to the 30. The drivage west towards the so-called incline shaft is still in hard and poor ground; nevertitless I recommend the drivage to be continued about north-west until it meets with the flookan seen in the 10. Some branches of ore were seen above, and they may improve in depth. On reference to my report it will be observed that I had not much opinion of this western ground, and was much surprised at the sinking of the so-called incline shaft (a sink about 3 fms. w

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er, but he Highburink as far s fathoms i justified had been nt. Two did would t in this

gear and a brake. I recommend this alteration before applying the crushers, and the entire framing made stronger. Capt. Tabb is now getting better acquainted with the general character of the ground; and as he is well provided with working plans and sections, I have no doubt but what the operations will be carried on astisfactorily, both underground and on the surface, and more especially if authorised to do what is needfal to ensure order and economy. I hope his next report will inform us that the shaft was fit for drawing to the 20, and that the stage would soon be ready to convey the ore from the shaft to the floors.

for drawing to the 20, and that the stage would soon be ready to convey the ore from e shaft to the floors.

CEFN BRWYNO.—Sept. 3: The lode in the 80, east of Taylor's shaft, yields 15 cwts. lead ore per fan.; the 68, 8 cwts. per fan. The lode in this level, going west of crosstant, or or per fan.; the lode in the melevel, going east of cross-cut, yields 12 cwts. per fan. The lode in the 66, east of ylor's, contains spots of ore, but not to value. The lode in the pitch over the 68 fan. rel, 50 fms. east of Taylor's shaft, yields 10 cwts. of ore per fan. The pitch over the 88 fm. rel, 10 fms. west of shaft, yields 9 cwts. of ore per fan. The bette over this rel, 10 fms. west of shaft, yields 9 cwts. of ore per fan. The bette over the same cwt, 50 fms. east of Taylor's, yields 4 cwts. per fan.; the pitch over the same cwt, 50 fms. east of Taylor's, yields 8 cwts. per fan. The pitch in bottom of the 20, fms. east of shaft, and the pitch over this level, 70 fms. west of shaft, are both worked to the points are without any alteration. We have this day sampled 53 tons good quality ore.

of good quality ore.

CENTRAL MINERA.—W. Davies, Sept. 4: The shaft sinking on red vein is going down with all speed. We have sank better than 30 yards; the water is very favourable for sinking. The cross-cut driving north, in the 35, is altering, and some clay joints crossing the end. I am of opinion we are close to the voin. The stopes in back of the 55 fm. level are much the same as last reported. The stope in the back of No 1 cross-cut is producing a little lead, but not enough to value. At Pugh's shaft we are going on with the cross-cut to intersect the great north cross-course. We have driven about 3 yards through rather difficult ground, composed of large tumblers of limestone and clay.

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CLARA UNITED.—Jas. Lester, Sept. 5: The lode in the 32 west is without change: the eastern end has slightly improved. The winze sinking below the 20 is of equal value—quite 15 cwts. per fm. I have began to clear the eastern end of the 20, so as to drive on the lode to cross under boundary shaft in Ponterwyd.

CROOKHAVEN.—It. Thomas: Next Saturday will be our monthly setting, and by that time I expect we shall communicate the ventilating shaft between the 20 and 40, after which all the force that can be advantageously applied will be employed in sinking the engine-shaft to the 60. The 40, driving west on the south lode, is composed of quartz, micaccous schist, and much the same as last reported. The ore is not in sufficient quantity to save, but it is a very promising lode, and easy for exploring. I would recommend to commence sinking under this level, which will be proving the lode, and also act as a ventilator for any work at and below the 60. If this is not done in time the workings will again be retarded when the shaft is sinking under the 60; therefor, it is advisable to set the winze to sink next Saturday to the men now employed driving west. The western trial shaft is sinking in the same description of ground, and the men making good progress.

CROWLWM.—J. Roach, Sept. 4: We have commenced sinking a winze under the adit level, on course of the lode, from which we are raising solid stones of lead ore; it has a highly promising appearance, which leads me to expect great improvements as the lode is developed in depth, we have not yet sunk more than 18 in.

CUDDRA.—A. Cundy, Sept. 3: Tickel's: The 100 is driven west 7 fms. on the north part of the lode, where we have a small quantity of black one cocasionally. This level is being driven with al

mundle cut through at the 68, which will I have nonous, when the assessment of the pollucity for copper. The end east and west (78) has been temporarily suspended, to await the intersection of the lode at the 90, when stoping at this point can be resorted to.

DEVON UNION.—J. Donnall, Sopt. 3: Quick's shaft is down about 2½ fms. below the 12, in favourable ground for sinking, and fair progress is being made. There is a little improvement in the ground in the 40, west from engine-shaft; the lode is about 2 ft. wide. No other change to notice.

DRAKE WALLS.—T. Gregory, Sept. 4: The branches in the 102, east of Matthews's shaft, are producing a little saving work. The branches in the 192 east are producing some good work for tin, with promising indications. In the 7p evel east the branches are producing some good work to fin. The by, west of Betteley's shaft, the branches are producing sowing work for tin and copper. The branches in the 60, west of Brenton's, are worth 12, per fathom for thi. In the 50, west of Brenton's, are worth 12, per fathom for thi. In the 50, west of Brenton's, a which point we find some good branches of tin, and, from present appearances, we may expect to lay open some good ground for stopes. In the 70 west, on copper lode, when last taken down, the lode produced good stones of ore, with promising indications. The tribute pitch in back of this level will produce 1 ton of ore per fm., of moderate quality.

DULTA.—J. Martyn, Sept. 3: Capt. Dunn and some of the directors and adventurers have been here, and inspected the mine both underground and at surface. They were highly pleased with what they saw, and have directed the present engine to be employed for stamping, and given orders to procure a second-hand pumping-engine. Dyer's lode is much improved, and producing capital work, being mon 7f. it, wide. Butt's lode is now much more solid, yielding some fine work for tin, and discharging much more water. The spar lode is much the same. Shimmin's lode is importing in size and quality, and turni

away for the staines, and that ere long Dulta will be a good and insting dividend-paying mine.

EAGLEBROOK.—H. Tyack: We have still a good course of lead ore in sinking the winze from the 10 to the 20, west of the engine-shaft. The lode in the 20, west of the engine-shaft, is producing some good stones of lead ore. In the 30 west there is no alteration. The dressing and surface operations are progressing satisfactorily.

EAST BEAM.—J. Webb, jun., Sept. 5: The engine-shaft is sunk 11 fms. from surface, where we are fixing eistern for an S-inch lift. We hope to get the engine to work early next week, and if the ground continues favourable we shall soon get a 20 fathom level, where we propose cross-cutting the lode.

EAST CARN BREA.—Thos. Glanville, Sept. 4: In the 50, driving east of cross-cut, the middle lode is producing 2 tons of ore per fm. In the 50 west the lode is 2 ft. wide, composed of spar and ore, but not enough of the latter to value. In the 40 west the south lode is producing 5 tons of ore per fathom. In the winze sinking below the 26 fm. level the lode is producing 2 tons of ore per fathom.

In the winze sinking below the 26 fm. level the lode is producing 2 tons of ore per fathom.

composed of spar and ore, but not enough of the latter to value. In the 40 west the south lode is producing 5 tons of ore per fathom. In the winze sinking below the 26 in, level the lode is producing 2 tons of ore per fathom. In the winze sinking below the 26 in, level the lode is producing 2 tons of ore per fathom.

EAST DARREN.—Sept. 3: We have no change to notice in any of our levels throughout the mine since last reported. The tribute pitches are all in full operation. All our machinery is in full work, and we have this day sampled about 80 tons of silver-lead ore. EAST DEVON GREAT CONSOLS.—T. Richards, Sept. 3: The engine-shaft is and the shaftmen are engaged in cutting plat, &c., so as to commence the 52. The ground is very favourable, and from indications we are not far off from the north, or Devon Consols iode. When the plat is completed we shall at once commence to cross-cut to the south lode, on which the 40 is driven, and also north towards the Devon Consols iode. In the 40 west the lode is large, and composed of prian, soft spar, and spots of lead ore, and from the latter mineral making its appearance I anticipate we are near the cross-cut south the ladications presented warrant us in believing we are getting near the south lode, and to show you the favourable character of the ground we have, I may state that the 40 west is driving at 31, per fathom, and the cross-cut south at 21, per fathom.

EAST PROVIDENCE.—T. Uren, Sept. 3: During the past fortnight we have had a hard bar of ground at the new shaft, which has impeded our progress for sinking, and also disordered the lode; but in the present bottom the ground seems to be changing for the better, and I hope the lode will soon resume its former size and quality. The 20, east of new shaft, and all other parts of the mine, are much the same as when last reported. We shall sell a parcel of tin on Thursday next, which will nearly meet all the cost for July month.

cost for July month.

EAST ROSEWARNE.—J. James, Aug. 31: In the 55 east the lode is 1 ft. wide, of a very promising character, and worth 12l. per fm. We have intersected the elvan course in the 55 west; the lode in the elvans is 12 to 15 in. wide, worth 15l. per fm.; the water is issuing freely, which we think will shortly drain the western ground, and enable us to make good progress with sinking the winze below the 43. There has not been much done in the said winze below the 43 during the week; the men have been clearing and binding the level, so as to take up all the water possible; the lode is much as last reported, worth 32l. per fm. In the 48 east the lode is 6 in, wide, producing stones of cer. In the

done in the said winze below the 43 during the week; the men have been clearing and hinding the level, so as to take up all the water possible; the lode is much as last reported, worth 221. per fin. In the 43 east the lode is 6 in. wide, producing stones of ore. In the 43 west the lode is 70 in. wide, agood branch of ore towarde the bottom. We are making good progress with sinking King's shaft below the 22; the lode is 8 in. wide, unproductive. In the 22 cross-cut we have cut two branches about 3 ft. apart, each 3 to 6 in. wide, and producing good stones of ore; we intend opening on them to prove their value. No change to notice in the tribute department.

EAST TOLGUS.—Sept. 4: The lode in the 70, east and west of John's shaft, is 20 in. wide, composed of spar, mundic, and jack, with good stones of ore. In the 57, east of John's shaft, the lode is 1 ft. wide—unproductive. In the 34 east the lode is 15 in. wide, composed of peach, spar, and mundic. The lode in the winze sinking in bottom of the 22 east is 2 ft. wide, producing a little tin. The stope in back of the 34, west of John's shaft, is worth for tin and copper ore about 6i. per fin. This remark will apply to the stope in back of the 24, east of John's shaft is worth for tin and copper ore about 6i. per fin. This remark will apply to the stope in back of the 29, east of John's shaft. John's shaft shaft below the 70.

EAST TREFUSIS.—J. Pope, Sept. 5: At Smith's engine—shaft, sinking below the 85, the lode is 20 inches wide, composed of spar and spots of copper ore. In the 34, east of cross-cut, on Trolawny lode, the lode is 2 ft. wide—unproductive. No lode has been taken down in the 22, west of the cross-course, on Smith's lode, since my last communication. At Trelawny's flat-rod shaft is how fairly gone through the lode, and is in full course of sinking by six men, who are making good progress. The lode broken in the shaft sof such a character as affords every reason to believe that it will be valuable in the level below, especially west of the flookan, a

more water.

EAST WHEAL FALMOUTH.—Wm. Hancock, Sept. 3: The adit cross-cut is in advance of the engine-shaft towards the south lode 2 fms. 4 ft.; ground as leat reported—driving by three miners and three labourers, at 4l. 10s. per fathom. The lode in the adit end, east of said shaft, is 18 in. wide—unproductive; driving by two men and two boys, at 2l. 10s. per fathom. No change to notice in any other part of the mine.

EAST WHEAL GRENVILLE.—G. R. Odgers, W. Bennetts, Aug. 31: The engine-shaft is set to twelve men, at 30l. per fm.; the lode being 3 ft. wide, and worth for the 15l. per fm., and copper full 3 tons to the fathom—a very promising lote. The 35 west to four men, at 3l. 10s. per fm.; the lode is 2 ft. wide, of quartz and good stones of ore, with good work for tin, worth about 5l. per fm.; this end is now looking more promising for copper, and where we are daily expecting an improvement, because in the

inde 8s composed of quartz, prian, peach, and mundic, and a little ore, looking promising, in the 8s, west of Hitchina's shaft, the lode is composed of peach, prian, capel, &c., producing a little ore. In the 66 east the part of the lode being carried is showing favourable indications.

— Jas. Richards, Sept. 5: Homersham's shaft is in a regular course of sinking below the 110, in which the ground is easier for progress.—Homersham's Shaft: In the 110 east, and east of Fewin's cross-cut, on the north part of the lode, the lode is exceedingly kindly, and is worth 1½ ton of ore per fm. In John's winze, sinking below the 100 east, the lode is worth 1½ ton of ore per fm. In John's winze, sinking below the 100 east, the lode is worth 1½ ton of ore per fm. In John's winze, sinking below the 100 east, the lode is worth 1½ ton of ore per fm. In 100 east, on the north part of the lode, the lode is worth 1½ ton of ore per fm. In the 100 east, on the north part of the lode, the lode is other 100, east of Oata's No. 1 winze, is worth 14£, per fm. The lode in the stope in back of the 100, east of Oata's No. 2 winze, is worth 14£, per fm. In the stope in back of the 100, east of Oata's No. 2 winze, is worth 14£, per fm. In the stope in back of the 100, east of Oata's No. 2 winze, is worth 14£, per fm. In the 88, east of Benney's winze, on the north part of the lode being carried (4 ft. wide) is composed principally of capel and prian, with good stones of ore occasionally. In the 88 east, on the south part of the lode, the lode is from 2 to 3 ft. wide, and produces a little ore of good quality, in the 86 east the lode contains capels, mundie, prian, and stones of ore of good quality, and is promising.

EXMOUTH.—J. P. Nicholis, J. Nicholis, Spt. 4: At the 72 north we have cut into the lode about 5 feet; so far the lode is hard and poor. To-day we intersected a stream of water which we hope will sufficiently drain the winze to enable us to sink, and have also put the men to rise from the 72 on the lode, and should the water suff

yet intersected the branch of ore gone through in the cross-out over the 60, not being far enough in advance. The stops generally are looking much the same as they were when we last-reported, and yielding just the same amount of ore. There is no change at any other point to remark, We sampled on Friday last 170 tons of silver-lead ore for the past two months.

GARDEM MINE,—N. White, Sept. 4: During the past week we have improved in the 12 fm. level, driving east of the engine-shaft, on the Ranger lode; it is driving by three men, at 40s, per fm. The lode is 18 inches wide, and worth 77, per fm., which, on account of the softness of the ground, wil work at good profit to the adventurers. The engine-shaft will be down to the 24 in about a week, when we shall commence to drive that level, and we calculate to get the same under where we have the above improvement in about three months.

GARDEG.—W. Sandoe, Sept. 4: Since my last report we have holed the new shaft, with a borer-hole down on the 29 end, and have since been busilly engaged squaring down the 3baft, &c., which will be completed now in a very short time, when we shall at once proceed to erect the new whim on the shaft, and throw the kibbles to bottom. The lode in the end under this shaft is about 2 ft. wide, and is producing a good mixture of lead ore. We shall now be able to increase the number of hands in this end, and I trust make rapid progress in extending it weatward in the new ground, which I believe will open out well. In the 20, going west on the old lode, there is no change to notice since my last; the lode is large, and producing a mixture of lead ore.

GAWTON COPPER,—O. Rowe, Aug. 31: The former stopes, which are now working on tribute in the back of the 50 west, have improved during the past week, now worth 6 tons of good quality or sper fm. This large and provide the producing a cross-cut to prove it. The lode in the rise in back of the 36 west is laid open 6 or 7 ft. wide, and not yet cut through, composed of flockan, spar, peach, mixed wit

more water. The 12 fm. level is driven 45 fathoms south of Davey's shaft, and daily expecting to cut a lode.

GREAT CRINNIS.—W. Woolcock, Sept. 5: The new shaft is now down about 8 fms. 5 ft. below the 110, in killas; the ground continues favourable for sinking, and congenial for copper ore. We have again the north wall of the lode in the westerneud of the shaft, which is regular and well defined; the water is flowing strongly from it. We hope to reach the 120 in about a fortnight, when we shall cut into it and make a plat at the same time, and, as the water is increased and the lode very large in the 110, I hope for favourable results at this point. In the 100 west the lode continues its favourable appearance, the north or leader part having increased in size to 1½ feet wide. We are still carrying the lode 7 feet wide, which is containing ore throughout. During the week we have passed through a small branch in the 100 cross-cut about 2 inches wide, composed chiefly of spar, with spots of copper ore, and underlying south about 2 feet in a fathom. The end is still very wet, and I think we are near another branch. In the 90 cross-cut, since passing through the branch referred to in my last report, the ground appears to be eased, and the end being dry we have no indication of any other branch or lode being near.

branch or lode being near.

Granch or lode being near.

H. Reynolds, Sept. 4: The shaft is now at the 45, and it will occupy us five or six days to cut a small plat, when we shall at once open on the part of the lode that has been yielding good stones of lead in the shaft. This part appears to be enlarging and improving in going east of the shaft, and we hope soon to have to report a good discovery of lead. We think the ground at the 35 will be set on Friday, at 4s, per ton of blende. GREAT SOUTH TOLGUS.—J. Daw, Sept. 4: The lode in the 112, west of Lyle's

shaft, is 2 ft. wide, producing 1 ton of copper ore per fathorm—a very kindly lode. The lode in the 90 east, on north lode, is 1 ft. wide, still producing a little ore. The lode in the 60, west of Lyie's shaft, is 1\frac{1}{2} ft. wide, producing stones of ore. The lode in the 40 west is 2 ft. wide, producing 1 ton of ore per fathorn.

GREAT TREGUNE CONSOLS.—W. Richards, Sept. 5: I am glad to acquaint you that the lode in the 80 west is improved since my visit last week; it is now full 4 feet wide, and its general character is of a most congenial nature, being composed of more flable quartz, flocken, mundic, and sich valley company one and worth, for the lattice.

that the lode in the 80 west is improved since my visit last week; it is now full 4 feet wide, and its general character is of a most congenial nature, being composed of more frable quartz, flockan, mundic, and rich yellow copper ore, and worth for the latter 101. 10s. per fathom. The indications at present are sufficient to recommend the shaft to be sunk to another level without delay, and I advise this to be done accordingly.

— J. Martin, September 4: The engine-shaft is 80 fathoms below surface. Tole 8 fm. level has been driven west by side of the lode 26 fms.; for this distance the do has varied from 4 to 6 ft. wide, with well-defined walls, &c., and is composed of muncile, quartz, prian, and small stones of copper ore; but for the last 10 fms. driven the lode has generally improved, and is worth on an average 51. per fm.; in the present end it is worth 121. per fm., and easy for driving in, the price being 61. per fm. The 70 has been driven west 27 fms.; in places the lode has produced some tons of good quality ore. I would strongly recommend that a winze be at once sunk from this level to the 80, which would not only improve the ventilation of the mine, but also lay open some very good tribute ground. The 60 has been driven west about 30 fms.; there have also been some tons of ore broken from the back and bottom of this level. It is intended to drive a cross-cut south from this level, to intersect a parl of the lode that left the shaft about 20 fms. below the surface. This, I think, is a good speculation for the effectual development of this mine; the shaft ought to be sunk at least 20 fms. deeper, but before this can be done there must be some alterations made in the pitwork; and, as there are sufficient pumps on the mine to effect this, the expense of doing it would not be great. The facilities for working this mine is very great, there being two very powerful water, wheels for pumping and driving, and the ground easy for exploring. In conclusion, I beg to say, Judging from the great improvement in the

20 cms. deeper, and the levels extended at that depth, I stuly believe has such an accordance of the profitable mine.

GREAT WHEAL ALFRED.—W. Bugelhole, J. Delbridge, Sept. 4: Copper House Shaft: The men are now engaged in stoping the back of the 220, west of the shaft. The lode in the stope is worth 161, per fm. The lode in No. 2 stope, in the back of this level, is worth 161, per fm. The lode in No. 1 stope, in bottom of the 210, is worth 151, per fathom; No. 2 is worth 201, per fm.; No. 3 is worth 181, per fm.; No. 4 is worth 171, per fm.; No. 2 is worth 171, No. 3 is worth 201, per fm.; No. 3 is worth 170, per fm.; No. 3 is worth 170, per fm.; No. 2 is worth 171, per fm.; No. 3 is worth 170, per fm.; No. 2 is worth 171, per fm.; No. 3 is worth 170, per fm.

seemen will resume driving the 210 end west.

GREAT WHEAL BUSY.—John Delbridge, J. Petherick, J. Bryant, E. Richards, 31; The summen are engaged fixing pitwork at the 95 to the 120. In the 120 ise the ground is favourable; lode poor. In the 120 (Offord's) the lode is 3 ft. wide—

level above we had good ore. The 25 cast to four men, at 41. 10s. per fm.; the lode is 2 ft. wide, with good stones of ore, embedded in gossan, prian, and quartz; this end is looking more promising than it has before for nearly 30 fms. driving. The 25 west to six men, at 41. 10s. per fm.; the lode being very large, of gossan and stones of ors; we hope by the latter end of next week it will be holed, when we shall resume the 35 cast. EAST WHEAL RUSSELL—J. Goldworthy, Sept. 4: Homersham's shalf is in regular course of sinking below the 110; the ground is a little improved for sinking. In the 10e cast the lode is large, and carrying a leader of ore from 8 to 9 fms. wide; the lode is showing good indications. John's winze, sinking in the bottom of the 100, wast of Outs's No. 2 winze, is worth 141, per fathom. The stope in back of the 100, cast of Outs's No. 1 winze, is worth 141, per fathom. The stope in back of the 100, cast of Outs's No. 2 winze, is worth 171, per fm. The stope in back of the 100, cast of Outs's No. 2 winze, is worth 171, per fm. The stope in back of the 100, cast of Outs's No. 2 winze, is worth 171, per fm. The stope in back of the 100, ast of Outs's No. 2 winze, is worth 171, per fm. The stope in back of the 100, ast of Outs's No. 2 winze, is worth 171, per fm. The stope in back of the 100, ast of Outs's No. 2 winze, is worth 171, per fm. The stope in back of the 100, ast of Outs's No. 2 winze, is worth 171, per fm. The stope in back of the 100, ast of Outs's No. 2 winze, is worth 171, per fm. The stope in back of the 100, ast of Outs's No. 2 winze, is worth 171, per fm. The stope in back of the 100, ast of Outs's No. 1 winze, is worth 171, per fm. The stope in back of the 100, ast of Outs's No. 2 winze, is worth 171, per fm. The stope in back of the 100, ast of Outs's No. 2 winze, is worth 171, per fm. The stope in back of the stope in back of the lode is composed of quartz, prian, peach, and stones of ore. The stope in back of the lode is 3 feet wide, worth 171, per fm. The lode in the stope

abart, below the 36, the lode is 3 feet wide, producing a little tin, but not to varue. In the 35, cast of the eastern shaft, the lode is 4 feet wide, worth 54, per fathom. The tribute department consists of 55 pitches, employing 120 men, at tributes varying from 55, 63, to 14s. In 14.

GREAT WHEAL MARTHA.—H. Rickard, Sept. 2: We have another good indication in the engine-shaft—a trench about 4 in, wide, composed of prian, soft spar, and mundle, with spots of black and yellow copper ore underlying about 5 ft. in the fathom towards the lode; this will fall into the lode about the 74 fm. lovel.

— Sept. 5: The ground in the engine-shaft, below the 40, still maintains its favourable's character, and I hope to be down the required depth for a 52 fathom level in about three weeks. In cutting plast at the 20, at Thomas's shaft, I find the lode to be worth full 204. per fm. The tribute department is much as usual, yielding its full supplies. We have about 300 tons crushed towards our next sampling, and the carriers are very busily engaged in getting it down to quay.

GREAT WHEAL VOR.—T. Gill, S. Harris, F. Francis, Sept. 2: In the 142, driving east of Metal engine-shaft, on the south part of the lode, the lode is about 3½ feet wide, worth 40, per fm. In the 142, driving east of Metal engine-shaft, the lode is from 3 to 4 ft. wide, worth about 354, per fm. In the 132, driving east of Metal engine-shaft, the lode is from 3 to 4 ft. wide, worth about 354, per fm. In the 132, driving east of Metal engine-shaft, the lode is about 34, ft. wide, but poor at present; it shows good indications to improve shortly. The lode in the 132, driving west of Metal shaft, is about 1½ ft. wide, and poor for mineral. Metal shaften are still engaged in driving east for a piat, but we expect in the early part of next week to put them to cross-cut south to intersect the lode. Our stopes throughout the mines are looking much the sout he piat, but we expect in the early part of next week to put them to cross-cut to intersect the lode. Our stop

for stoping.—Riches' Lode: In the 40, west of cross-cut, the lode is 18 in. wide, opening tribute ground. We sold on August 31, 7 tons 0 cwts. 3 qrs. 5 lbs. of black tin, at 661, 5s. per ton.

GWYDYP PARK CONSOLS.—Capt. Smith, Sept. 5: We set the deep adit to drive west by slx men, at 81. 10s. per fm., stended 2 fms.; ground rather harder, and as we have not taken down any look this week, we may suppose it to be just as last reported. IIAWKMOOR.—J. Richards, J. T. Phillips, Sept. 3: The lode in the stopes in back of the 25, east of Rowe's rise, continues to turn out from 2 to 3 tons of copper ore of good quality per fathom. We are making good progress in forking the water; we cannot, however, say for certain when it will be in fork to the bottom levels, but you shall be informed in time. We sampled on Friday last 35 tons of copper ore of good quality.

HERWARD UNITED.—T. Pierce, Sept. 5: Parry's sump, below the 30 yard level, east of Dunsford's shaft, is looking well, and by its present appearance will be a productive mine. The bottom of this sump is the deepest place in the east part of the mine, so we can expect a good chance for ore. Dunsford's sump, on the now vein, below the 80 yard level, la promising well; the vein is from 6 to 9 in. wide, composed of clay, spar, and lead ore, and is a nice-looking vein, all in new ground, and if it turns out as well as it appears at present this mine will be as good as it ever has been before. The tributers are not going on so well as usual. We shall sample 20 tons of lend ore on Friday next, HINGSTON DOWN CONSOLS.—T. Richards, Sept. 3: The lode in the 85 is improving, and may be valued at 70. per fm.

— T. Bichards, Sept. 4: The 85 west continues to improve; the lode is now worth of ore per fm. No material change at any other point.

HUCK WORTHY BRIDGE.—Jas. H. Rodda, Aug. 28: The lode in the empire-shaft, sinking below the 25 fm. level 12 fms.

— J. H. Rodda, Sept. 4: Hitchins's engine-shaft is sunk below the 25 fm. level 12 fms.

full 80%, per fm. No material change at any other point.

HUCKWORTHY BRIDGE.—Jas. H. Rodda, Aug. 28: The lode in the engine-shaft, sinking below the 25 fm. level, is 3 ft. wide, composed of capel, peach, mundle, prian, and stones of ore.

— J. H. Rodda, Sept. 4: Hitchins's engine-shaft is sunk below the 25 fm, level 12 fms. 4 ft.; the lode is without any alteration since last reported. We have 10 ft. more to sink, when this lift will be completed to the 38. No change to notice in the 25 cast.

KELLY BRAY.—S. James, Aug. 31: There has not been any lode taken down in the 75 cast during the past week. The lode in the 55 cast is 1 ft. wide, yielding mundle, blende, and atones of ore, looking more kindly than it has for some time past. On the whole, the tribute department is looking better than it in there has been.—Eastern Mine: The lode in the 70 cast is 2½ ft. wide, composed of quartz, blende, mundle, and apots of copper ore—a strong kindly lode; a much healthier lode than was found in the 60, just above the before-named point. The lode in the winze in bottom of the 60 is still looking very promising indeed, yielding about 2 tons of ore per fm., but the water is very quick, so that it very much impedes our progress in sinking. We sampled yesterday from the eastern mine 5½ tons of rich ore. The above-named winze is not more than about 7 ft. below the 60. We are still driving south in the 60 in search of a branch which went off in that direction, some 7 or 8 fms. west of the present end, and the ground is showing indications of there being something near at hand. We weighed off on the 30th inst. 70 tons 10 cwis. 2 qrs. of ore, and sampled for some time past.

LADY BERTHA.—Capts. Harpur and Metherell, Aug. 31: The appearance of both the 63, cast and weat, are without any change calling for any remark from us to-day. In the 41 east the lode is still small, carrying mundle, peach, and occasional stones of ormal mundle, peach, and ore. In the 30 east we are still cross-cutting north. In the wings, sinking below the bot

Mine: Nothing of any importance yet cut, the chu cenng shin in unroused grown, small branches.

MERLLYN.—Wm. Sandoe, Sept. 4: The new shaft, sinking below the adit level, is now down from 7 to 8 fms.; the ground continues favourable, and the sinking progressing fairly. The stope in the bottom of the adit is producing 6 cwts. of lead ore per fm., and the lode highly promising. In the 20, going east from new shaft, towards the north and south lode, we have lately driven 4 or 5 yards through a very hard bar of ground, principally of chert, dark limestone, &c., but have Just struck into ground of a different character—light limestone, carbonated filme, clay, &c. I expected to have cut the north and south lode ere this; I have not had, however, an opportunity to inform myself correctly as to the width of this lode, or how much per fathom it underlies, but have always understood that it dips or underlies west towards us about 2 feet in I fm., and our end, which at this point would be full 20 fathoms below surface, I have this week carefully dialled out, and find the forebreast to be home to the old hillocks made on this lode at weeken combally a carginary ago: within 5 fms., therefore, had the underlies been, as I expense on the long of the contraction of the surface of the underlies been, as I expense on the long of the made in the surface of the underlies been, as I expense on the long of the surface of the underlies been, as I expense on the long of the surface of the underlies been, as I expense on the long of the surface of the underlies been, as I expense of the underlies been, as I expense on the long of the l

understood that it dips or underlies west towards us about 2 feet in 1 fm., and our end, which at this point would be full 20 fathoms below surface, I have this week carefully dialled out, and find the forebreast to be home to the old hillocks made on this lock at surface probably a century ago; within 5 fms., therefore, had the underlie been, at expected, 2 ft. per fathom. We ought to have seen the lode a week or two since; however, it is very certain that we are now near the lode, and I shall be duily in expectation of cutting it, when I have not a doubt but that it will produce satisfactory results. We have just commenced dressing up the ore stuff we have at surface, and shall prepare a small parcel of 3 tone for the next week's sale.

MICHELL.—W. Sandoe, Sept. 4: The ends going east and west from the bottom of the new shaft are progressing as fast as the nature of the ground will admit of. We have driven 5 yards east and 5 yards west on the north part of the lode, which is in each end about 2 feet wide, of a very kindly appearance, and is producing occasionally stones of lead ore. The new trial shaft is from 4 to 5 fms. below surface; here we have a strong and kindly-looking lode, producing fine specimens of lead ore. During the past fortnight we have also erected on the mine a small house, for the twofold purpose of changing-house and smith's shop. Everything is being pushed on fast as possible.

MOLLAND.—T. Bennetts, Sept. 4: The lode in the 32 east is 4 feet wide, carrying a small though kindly leader of ore on the north side, which I hope will lead us to some thing better; this end being so far from shaft the air is sometimes very dead, and hence I conclude it is desirable to effect a communication with this and the 20 fm. level by sinking a winze, which would ventilate the workings and prove the ground to some extent between both levels; set to six men, I fm., at 5t., and to stope, 2 fms. in back of the level, at 3t. 10s. per fm. In the 20 east, though the lode is small and poor at present, it is widen

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70, east of cress-cut, on Wheal Maria north lode, will produce 1 ton of ore per fin. One stope in back of the 30, and within 20 ins. of the end, will produce 4 tons of ore per fin. All other places much the same as for some time past. Our ore sold on Aug. 29 has weighed off 120 tons 19 cwis. 2 qrs., realising 6291. 3s. 10d.

NORTH BASSET.—T. Glanville, G. Davey, Sept. 4: In Grace's shaft the lode has rather improved, and is now producing about 2 tons of ore per fm. No other change since report of last week.

NORTH BULLER.—J. B. Delbridge, Aug. 30: In the 78, west of the engine-shaft, the lode is from 12 to 18 in. wide, yielding good stones of tin in a very good channel of ground. In King's shaft, sinking below the 42, the ground is favourable; lode from 10 to 16 in. wide; the length of the shaft yielding rich stones of copper ore, but not to value as yet. In the 42 east the lode is from 14 to 20 in. wide, composed of prian, peach, quartz, mundic, and spots of copper ore. In the 42 west the lode is small, which is most likely to continue until we cut the cross-course. We have the lift working at the 42 to keep off the surface water. We are sinking dry below the 42. The ends are quite dry also. We hope, if the weather continues dry, to stop the rods in the coming week.

NORTH FRANCES.—F. Fryor, Sept. 4: in the 60, cast of Hunt's shaft, the lode is presenting what I consider a good appearance, and is producing splendid atones of black and gray ove. If we may judge from appearances, I nope the next level will do some thing for us. The shaft is down, and no time will be lost in proving the result, also in cross-cutting at this point to interace the lodes nearer West Basset.

NORTH GREAT WORK.—J. Pope, Sept. 3: The lode in the 10, east of Lloyd's shaft, is about 1 ft. wide, producing copper ore, mundic, and saving work for tin, a vary promising lode. Thomas's shaft, sinking below the deep adit, is about 4 ft. wide; on the south side there is a branch about 7 in. wide, yielding saving work for tin, a orty promising lo

are falling together as we go down, and between them there are other smaller ones, from 1 to 2 inches wide, altogether presenting a kindly appearance, and, more than this, a tolerably good iode.

NORTH LAXET.—R. Rowe, Aug. 30: We are coming to a change in the 27 end; we have got an open joint in the hanging. wall; I expect we shall have lead in the end again shortly. The lead in the shaft looks about the same as when you saw it on Tuesday. We have nothing new in the 38 end yet. I intend going to Ramsey to-morout oget tar and everything ready for the wheel.

NORTH MNERA.—W. T. Harris, Sept. 5: The new shaft is now in course of sinking, and the ground is favourable for progress. The stopes at Pugh's are producing their sesual quantity of lead per fathom, and have every appearance of a continuance. At Wilson's shaft the lode in the driving north has a little improved upon last report, and further improvement may be expected when we intersect the lode a little in advance of the present end. All other operations progress satisfactorily, and without any material alteration since last report.

NORTH WHEAL ROBERT.—J. Richards, Sept. 5: The 52 west, east of Elliott's crosscut, is on the point of being communicated with Crowle's winze, on No. I south lode, As soon as this communication is made a 40 fm. level will be driven east thereof. In Edwards' cross-cut south, at the 30 west, the ground is easier for progress. In the 30 west, east of Edwards' cross-cut, on No. 1 south lode, the lode is unproductive. The lode in Davies' rise, in the back of the 30, is 18 in. wide, and yields good stones of cro. In the 20 west, and west of Fall's rise, the horth part of the lode is morpoductive. The lode in Davies' rise, in the back of the 30, is 18 in. wide, and yields good stones of cro. In the 30 west, east of Friend's cross-cut, on No. 2 south lode, the lode is small (I foot wide); it, however, yields good stones of ore. I file's winze, had fine stones of ore. I file's winze, below the 30, and west of Friend's cross-cut, on No. 2

NORTH WHEAL TRELAWNY.—H. Hodge, H. Harvey, Sept. 5: Magor's engine-shaft is sunk 8½ fms. under the 65. There is nothing new to notice in any other part of the mine.

NORTH WREY.—T. Kent. Sept. 5: The lode in the main shaft is of the same character as reported last week, being composed of congenial flookan, prian, fluor-spar, strong mundle and quartz, spotted with lead ore, and is looking exceedingly promising; I am pleased to say, the ground being favourable for sinking, that the men are making good progress. It would be advisable that a new drawing-machine should be attached to the ownpany. We may expect shortly a full supply of water for all purposes.

OKEL TOR.—W. B. Collom, Sept. 5: In the 80 east no lode has been taken down for the week. In the back of the 65 the lode will yield 10 tons of ore to the fathom. The stopes in the bottom of the 50 have improved, now yielding 12 tons of ore to the fathom. The pitches in back of the 50 are looking very well. In the other parts of the mine there is no alteration to report.

OLD TOLGUS UNITED.—Wm. Pascoe, Sept. 3: There is but little change in the prospects of the mine since the meeting.—New South Lode: In the 52 we have commenced to drive a cross-cut to the south part of this lode, which will be intersected in about 8 or 10 ft. driving.—South Lode: The lode in the 52, in this end, still maintains its size (2½ ft. wide) made up of quartz, mundic, and producing stones of good copper ore. In the 42, west of cross-cut, the lode is 2½ ft. wide and of much the same character as in the 52, has y jeiding stones of good quality copper ore, and letting out pretty much water. The lode in the 32 west has improved; it is now fully 15 in. wide, composed oblende and mundic, with more coppenial nature.

PEDN-AN-DREA.—Wm. Treagay. T. Delbriddge, Aug. 31: But slight progress has been made in sinking the engine-shaft for the week, as well as driving in the 110 east, in consequence of the shaftmen having broken the windbore; this has now been replaced by another, and we hope to make

been stamping regularly; it is now being repaired, and we hope to get all right again this evening.

PENHALDARVA.—J. Pope, S. A. Pope, Sept. 3: We have driven the 60, north of engine-shaft, 12 fms, the leader part of the lode the whole distance, from 12 to 18 in. wide producing occasional stones of lead. The 60 is driven south of the engine-shaft 2 fms.; lode large and unproductive. The 50 is driven north of engine-shaft a great distance, which passed through some small bunches of lead, but at present unproductive. The winze sinking below the 60 fathom level, 18 fathoms north of the engine-shaft, is down 3 fathoms; lode large, and has produced good bunches of lead, but at present poor. In the adit cross-cut north we have intersected a caunter lode about 6 in. wide, composed of lead, blende, flookan, and mundic—a very kindly lode, but being only 4 fathoms deep we cannot say much about it until further extended on.

PROSPER UNITED.—W. H. Martin, Sept. 5: Louisa's engine-shaft is cut down to the 30; during the last few days the ground has become more favourable. We are still clearing and putting into proper condition the 30, east and west of this shaft. At Hosting's engine-shaft sufficient ground has been removed at the 20 for the reception of bearers, cistern, &c., and at present the sumpmen are engaged fixing the same for the plunger-lift, which we hope to get to work by the latter part of next week. The new shaft on Murchison's lode has been sunk 18½ fms. from surface; during the last few days the lode has somewhat improved in appearance, and is yielding some good stones of copper ore. On Friday afternoon last, at Louisa's engine-shaft, we were delayed a few hours in consequence of the parting of the bucket-rod, which was quickly repaired, and the engine soon set to work again.

REDMOGR.—T. Tealors sent 2: We are designed to the 80 and 70 ends west.

per ore. On Friday accessory of the bucket-rod, which was a consequence of the parting of the bucket-rod, which was the engine soon set to work again.

REDMOR.—T. Taylor, Sept. 3: We are desuing the lode in the 80 and 70 ends west. The ground in the 80 is more mixed with spar. In the 70 the ground is a little better. In the 40 the ground is a little better; no change in the lode. Tribute pitches without the 40 the ground is a little better; no change in the lode.

The ground in the 80 is more mixed with spar. In the 70 the ground is a little better. In the 40 the ground is a little better; no change in the lode. Tribute pitches without alteration.

RIBDEN.—R. Niness, Sept. 5: The ore still continues in the bottom of our present workings—below the 62—but the water is getting so powerful as we go down that it occupies nearly all the time to draw the water, consequently we can cut but little ground, therefore there should be no time lost in driving a level west at the bottom of Gilbert's shaft to relieve this valuable piece of ore ground of the water, which I have repeatedly referred to in my former reports. I am glad to say that the dressing of the ore is going on most favourable, and we intend to sample and weight to a Saturday.

ROSEWALL HILL AND RANSOM UNITED.—E. Thomas, Aug. 28: The lode in the Hansom engine-shaft, sinking below the 110, is 2ft. wide, and much the same in value as when last reported—71. per fm. In the end driving west of the Troan we have intersected a cross branch, which has disordered the lode, which is worth from 15/1 to 20, per fm. The lode in the end east of shaft is without change. The winze below the 100 is communicated with the 110; we have set the eastern end of the winze to stope by two men, at 21. per fm.; the lode is 4 ft. wide, worth 20, per fm. The other parts of the mine are without change.

— E. Thomas, Sept. 4: The lode in the Ransom engine-shaft, sinking below the 110, is from 2 to 3 ft. wide, worth 37, per fm., and has every appearance of improving. The lode in the end east of shaft is much the same as for some time past, worth 67, per fm. The lode in the end east of shaft is much the same as for some time past, worth 67, per fm. The lode in the stopes in back of this level, east of Curaming winze, the lode is from 5 to 6 ft. wide, and worth 20, per fm.; we think the improvement which has taken place at this level is of much importance. The tode in the 80 end east is worth 87, per fathom. The stopes in the back of this level, east of

disarranging the measure; the rock seems to be firm again, and the lode carries a thin rib of ore on the north wail. Dunsford's shaft is without any change since last advised. SOUTH CARADON WHEAL HOOPER.—W. C. Cock, Aug. 31: The lode in the engine-shaft has the appearance of becoming larger, and is letting out more water. In the 62 west the lode has become small, and spotted with copper ore, but not to value; the ground is harder, but of a more favourable description for copper ore, and it is perfectly analagous to that of the neighbouring mines about the productive lodes. It is my firm conviction that those shoots of ore we are frequently meeting with are connected with a course of ore of great magnitude. In the 47 cross-cut the ground continues hard. The lode in the winze sinking below the 47 cross-cut the ground continues hard. The lode in the winze sinking below the 47 cross-cut the engine, as we find the water to be increasing, and it is a matter of importance that it be sunk to the 62, as it will ventilate that level, as well as be proving the ground between that and the 47, and will also enable us to carry out a more rapid development of the lode below the 62, by sinking a winze below that level while we are driving the cross-cut towards it in the 90, which I hope we shall commence in about two months from this time. SOUTH CARN BREA.—T. Glanville, Sept. 4: There is nothing new in this mine, or Wheal Union, to report on.

it in the 90, which I hope we shall commence in about two months from this time. SOUTH CARN BEEA.—T. Glarwille, Sept. 4: There is nothing new in this mine, or Wheal Union, to report on.

SOUTH CRENVEER.—E. Chegwin, Sept. 5: In the flat-rod shaft, sinking below the 150, lode 1½ ft. wide, producing good stones of copper ore and mundic. We have taken down the north part of the lode in the 105 east, which is about 1½ ft. Wide, producing ½ ton of copper ore per fm. Our pitches are without change.—South Mine: In the 51, east of cross-cut, the lode is 3 ft. wide, producing good stones of tin. In the 51, east of cross-cut, the lode is 3 ft. wide, producing good stones of tin. In the 51, east of cross-cut, the lode is 3 ft. wide, producing stones of tin, mundic, and spots of copper ore. SOUTH DARLEN.—J. Boundy, Sept. 3: The engine-shaft is sunk II fms. below the 70. Saturday last being our pay and setting day, the following tutwork bargains were set:—To sink the engine-shaft 3 ft. deeper for a fork, by nine men, at 30, per fm. This I hope will be completed in about a fortnight, after which it is intended to drive both east and west of the engine-shaft, on the course of the lode, in the 69, where the lode presents a very encouraging appearance. The 70 to drive east by six men, st 77, per fm. The lode is 5 ft. wide, yielding about 10 curts. of lead ore per fm. There are four stones at in the back of the 70, both east and west of the shaft, to 18 men, at 60s., 67s., and 65s, per fm.; the set of the shaft, to 18 men, at 70 men, at 50s per fm. To sink a winze below the 60 east, near the present end, by six men, at 71, per fm. To stope in bottom of the 60, west of the engine-shaft, by four men, at 60s, per fm. To sope in bottom of the 60, west of the engine-shaft, by four men, at 60s, per fm. To sink a winze below the 60 east, near the present end, by six men, at 71, per fm. To stope in bottom of the 60, west of the engine-shaft, by four men, at 60s, per fm. To sink a winze below the 60 east, near the present end, by six men,

south discount speak of any improvement since last reported.

South Herodsfort, — J. Wolferstan, Aug. 31: The adit level cross-cut has been extended 67 fathoms west, and intersected a large strong lode, 3½ feet wide, composed principally of quartz, mundle, and gossan. At the point of intersection the back is 12 fms. high, or so much from surface. We have driven on the course of the lode about 20 fms.; it varies in size from 1½ to 3 feet wide, and is composed of quartz and gossan. We have also driven about 10 fms. north, and find the lode to be about 2½ feet wide, and much the same in character as going south. We purpose driving another 10 fathoms south before deciding on the most eligible place for sinking a shaft. It will then be necessary to call a meeting to consider the size of an engine, and what other machinery it may be proper to erect.

it varies in size from 1½ to 2 feet wide, and is composed of quarts and gostans. We have also driven about 10 fms. north, and find the load to be about 2½ feet wide, and much the same in character as north, and find the load to be about 2½ feet wide, and much the same in character as the consider the same in character as the consider the same of the consider the same in character as the consider the size of an engine, and what other machinery it may be proper to creet.

SOUTH TOLGUS.—Sept. 4: Yourn's Lode: The lode in the 130, west of Michell's, it is it, wide, composed of peach, spar, and mundle. In the 130 west the lode is 15 in. the bove-named level is 18 in. wide, composed of peach, spar, lack, and mundle. The two stopes in back of the 150 west teach you will also make the lode in 16 in. the lowest peach the lode of the two stopes in back of the 150 west teach you will, a two composed of peach, spar, and mundle. The two stopes in back of the 150 west teach you will, composed of peach, spar, and mundle. The love the stope is the stope of the stope of peach, spar, and mundle. In the 150 make the lode is 20 in. will, one stope of peach, spar, and mundle. In the 150 make the lode is 20 in. will, one stope of peach, spar, and mundle. I east is 2 it. wide, composed of spar and peach. The 120 east is 2 it. wide, composed of spar, spach, mundle, and good stones of ore-a fine, strong, kindly-looking lode. The lode in the wince sinking in bottom of the 120 east is 2 it. wide as any in the 30 west, on the north lode, the lode is 20 in. wide, composed of spar and stones of ore. The two stopes in back of the 10 east each to 160 west, on the north lode, the lode is 2 it. wide—a slab of mundle.—New South Lode: This lode in the 78 west is 10 in. wide; we have broken some fine stones of ore from it since last report, but it is poor at present.

SOUTH WHEAL KITTY (Lefant)—S. Mitcheli, Jun, spat, 2: The lode in Web's shalt is more settled within the last few feet sinking; I love a sample from the bottom as the fermer, being v

the Risenes empire-shaft, similar below the 100, is 2ft, wide, and much the same in terretord a cease interest. Note in the center of the 100, better the control of the 100, better the 100, per face. The center of consecuting the local in the center of the 100, better the 100, per face. The center of consecuting the local in the local in the center of consecuting the local in the local in the local in the center of the local in the local interest in the local in the lo

wide, producing low price tiestuff. In the 60 cross-cut, south-east of the engine-shaft, no change to notice. In the 30, cast of the engine-shaft, the hole is worth 2l. 10s. per fathom. At Holew's shaft, shaking below the 10, the tode is unproductive. At Michel's fast-rod shaft, shaking below the 20, the hole is unproductive. At Michel's fast-rod shaft, the hole is worth 5l. per fm.

TREWEATHA.—J. Scoble: The ground in the 30 cross-cut is more favourable for progress since last report. No alteration in the 16; it still continues to be worth 5 cwts. of

no change to notice. In the 29t, east of the engine-sunfat, the lotte is worth 24.0 as, per fathom. At Hollow's sinfat, sinking below the 10, the lote is unproductive. At Michel's flat-rod shaft, sinking below the 20, the lode is worth 67. per fin.

THEWEATHA.—J. Scobles: The ground in the 30 cross-cut is more favourable for presses since last report. No attention in the 15; it still continues to be worth 6 cwts. of lead print.

THEWEATHA.—J. Scobles: The ground in the 15; it still continues to be worth 6 cwts. of lead print.

The 10 continues the 10 continues to be worth 6 cwts. of lead print.

The 10 continues the 10 continues to be worth 6 cwts. of lead print.

The 10 continues the 10 continues to be worth 6 cwts. of lead print.

The 10 continues the 10 continues the 15 cast is worth 31. per fathom. All the other 15 cast is 10 ln. wide, producing good work for tin, worth 57, per fathom. All the other bargains are progressing satisfactorily.

UNITED MINES (Twatsche).—J. Tucker, Sept. 4: The dividing and easing of the shaft is completed to the 72, and the men are now engaged driving a cross-cut south to cat the lodes at that level. As the winth mas been tile while the sank has been cased, and the shaft is completed to the 72, and the men are now engaged driving a cross-cut south to cat the lodes at that level. As the winth an about 6 attention to the 10 continues the 10 contin

mundie. We nampled on Friday last 3000 sacks of tinstuff of the average value, which will be offered for sale on Friday next. We have sold 400 tons of mundie since our last report.

WEST WHEAL TREVELYAN.—G. R. Odgers, John D. Osborn, Aug. 39: We have nearly completed the cutting of the plat at the 58, and we hope next week to resume the sinking of the engine-shaft below that level. The 68 to drive west by four men, at 41, per fm.; here we intend to cross-cut north through the lode, and at the same time to hole to the winze, sinking below the 48, on the north part. The 48 to drive west by four men, at 41, per fm.; he lode is 12½ ft. wide, worth 51, per fm. for copper, and a kindly lode; here we are expecting an improvement. The western stope, in the back of the 48, by four men, at 21. 10s, per fm.; the lode is worth about 71, per fm. The castern stope, in the back of the 48, by four men, at 42. 10s, per fm.; the ground being also of an easy killas. The cross-cut to drive north of the main lode, at the 23, by cut men, at 64, per fm.; the ground being also of an easy killas. The alling by two men, at 62, per month; the innding by two men, at 71, per month.

WHEAL AGAR.—Wm. Roberts, Sept. 4: There has not been much done in the 90 cross-cut south since setting-day, as the shaftmen have been putting in skip-road, in order to draw from bottom. In the 80 seat the lode is 21%, the, producing also, for one per fm. In the winze sinking under the 80 the lode hange pittinto several branches. In the 70 cast the lode is 2 ft. wide, producing atoms of ore: in the same level west the lode is 3 ft. wide, very promising, and producing atoms of ore. The stope in back of the 80 produces 4 tons of ore per fm.

WHEAL ANNE.—H. B. Grose, Sept. 5: Allen's lode in the end is 7 feet wide, good work for thin, with fair prospects of its continuance. The same lode, in the deep adit, is 19 feet wide, producing saving work; we may anticipate an improvement in this end as we get under the ting fround gone down on the level above. We are getting

WHEAL ARTHUR.—T. Carpenter, Sopt. 3: The lode in Burley's rise and stope, in back of the adit level west, is 4 ft. whde, composed of spar, prian, mundic, and copper one, worth of the latter 2 toss per fin.; working by six men, at 35s. per fin.—6 fins. stent, The lode in Paimer's stope, in back of the adit level west, is yielding 1½ ton of copper ore per fathom; this stope is working by four men, at 40s. per fin.—4 fins. stent. We have driven the 50, north and south on the boundary cross-course, this last fourteen days, 14 fins. 2 ft., and we have 7 fins. 4 ft. more to drive to make the communication, which 1 hope will be accomplished very soon, if the ground continues as favourable as it is at present. We are driving south on the cross-course by six men, at 30s. per fin.; and driving north by six men, at 70s. per fin. We sampled at Calstock Quay on Friday last, 36 tons of copper ore.

WHEAL CREBOR.—Capt. Gifford, Sept. 5: There is no alteration in any part of the mine to notice since my last. I hope to communicate the rise from the back of the 60,

while AL UREDOW.—Lab.

I mine to notice since my leat. I hope to communicate the rise from the back of the 60, east of Cock's shaft, with the winze in bottom of the 48, by the middle of next week, when we shall begin to strip down the lode. We have about 5 fathoms more to drive in the 48 west to intersect the east cross-course, which we hope will unwater the old

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thom: I have suspended the working of this stope for the present, in consequence of too nuch water to be worked at an advantage. The lode in the 100 east end is improved, and worth for tin 18t, per fm. The lode in the stopes above the 100 is worth for copper and tin 18t, per fm. I have set a stope below the 100, east from castern shaft; the lode worth for copper ore 12t, per fm. Other parts of the mine are without change.

WHEAL HOPE.—W. H. Raynolds, Sept. 3: The crank of the engine is broken, and it till take until to-morrow to get a new one at work; the water was down nearly to the fm. level. I think we shall not be hindered in the 14; we are breaking good stones

with far copper ore 121, per fan. Other parts of the mine are without changes. WHEAL HOPE.—W. H. Raynolds, Sept. 3: The crank of the engine is broken, and it will take until to-morrow to get a new one at work; the water was down nearly to the 25 fan. level. I think we shall not be hindred in the 14; we are breaking good stone of lead here.

WHEAL KITY (Lelant).—W. Williams, Sept. 5: Engine Lode: The lode in the 100 end, west of the engine-shaft, is 18 inches wide, low price stamping work; price for driving, 11. So, per fan.—Gowal Lode: We have commenced to sink of the control of the c

MINING NOTABILIA.

TEXTRACTS FROM OUR CORRESPONDENCE.

HINING NOTABILIA.

[EXTRACTS FROM ON CORRESPONDENCE.]

FOWEY AND PAR UNITED.—The engine-shaft is sinking satisfactorily, in a beautiful channel of ground. There is a new 36-inch engine erecting by Messra. Nicholis, Williams, and Co., for pumping and stamping, and there is every expectation of this speedily becoming a good innei; it is owned by a highly respectable company, and the financial arrangements are well managed by Mr. E. S. Codd, who is well known in the mining world for ability and integrity.

NORTH HAFOD MINES.—Notices received yesterday (Sept. 6) from these sines state that the appearances of the lodes are as good as ever. The consulting engineer is to visit the mines in the coming week, and his report will be placed before the share holders, giving details down to the intest moment.

BULLER AND BASSET.—The lode in the 80 west is looking very kindly, improving every time it is taken down. The lode is producing quartz, soft spar, chlorite, and yellow copper ore. The agents have a high opinion of this end.

DULTA.—On August 28 the secretary paid a visit to this mine, accompanied by two or three gentlemen, who carefully examined it, both underground and at surface. Some tolerably good work for this being broken from four different lodes (the Spar lode, 3 feet wide). Since their visit, Dyer's lode, which "caunis" the others) is reported to have doubled in value. Some solid lumps of grain the have been met with in driving upon Butt's lode, and a great improvement is shortly expected near the junction with Dyer's lode. The dressing-floors are being enlarged, and extra dressing machinery prepared; for, although the lodes at the present shallow depth are not rich, the whole of the work is worth putting through the stamps; and while they are promising for improvement, by extending on their course, their size, regularity, and character, give great reason for anticipating great results at a deeper level.

At NORTH Treskers a good discovery has taken place near Hunt's shaft; the lode is producing fine rocks of

avoidate is producing mer rocks of copper ore, and has every appearance of becoming a vordate tree one in a few fathoms further driving.

New Crow Hill.—The ground in the shaft is not so favourable for inking as it was, but the difference is not very great; it is now down 6½ fms. below he 55. We have cut killas in driving north at the 35, and believe we are through the ode, but purpose driving a little further to prove this point; the north part is the best; bout 1 ft. or that is loose, sandy, fine stuff, containing spar, mundic, and a fair quantity if lead, which is ca'did cubes or oblongs, from a very small size to that of a marble, which we can, we think, dress without stamping; and another part of the lode north, for about or 3 ft., is better than the rest, but the lode altegether is 24 ft. wide. The lode in the 5 is the same as before reported, yielding fair stuff for the stamps.

EAGLEBROOK.—The lode in the 20, coming up under the winze, is also improving, the present time yielding fine stones of lead ore.

NORTH DOWSE continues to open up one of the most productive mines

present time yielding fine stones of lead ore.

RTH Downs continues to open up one of the most productive mines NORTH DOWNS continues to open up one of the most productive mines in the county. The next sampling will be about 290 tone, 80 tons of which being raised from the ends and winzes, 130 tons more at a tribute of 1s. 6d. in 1l., and the remainder at 8s. 6d. in 1l. This toils its own tale. The 50 ends continue to open splendid ore ground; and if the ore be cut into in the 60 (of which there is no doubt), shares must have a rapid rise. The next dividend will be an advance on the last, besides considerably increasing the balance in hand.

NORTH FRANCES, which immediately adjoins West Basset, is much improved. The 57 or bottom level is yielding large stones of very rich grey and black orea. This will in all probability lead to one of those great discoveries which characterise the mines adjoining. West Basset first cut their great course of ores at about the same depth.

HERWARD UNITED.—There is a great improvement in these mines in he last month; two or three promising east and west veins have been cut in the estern ground, each having good lead ore. The mines are also looking well in the ustern part of the sett in the deepest workings. Twenty tons of lead ore are sampled.

for the sale on Thursday next.

NORTH ROBERT.—Samples have been taken from the tin lode, which prove very satisfactory: every 100 sacks produce 6 cwts. of black tin. The mine is altogether much improved, and will, no doubt, work at a profit. It is reported that the dues are to be given up until a dividend is declared. This ought to be done more frequently, to assist the shareholders who incur such heavy outlays.

altogether much improved, and will, no doubt, work at a profit. It is reported that the dues are to be given up until a dividend is declared. This ought to be done more frequently, to assist the shareholders who incur such heavy outlays.

WHEAL EDWARD.—The discovery of a new south lode is likely to prove an important feature in the future prospects of this mine. The cross-cut driving on the cross-course will intersect the lode in about a fortnight or three weeks, and will take the lode in the parallel ground, in which the north and south lode has returned so much ore. The general prospects of the mine have considerably improved, and it is estimated, from present appearances, that a baiance of 400% or 500% profit will be carried over at the next meeting. The whole of the western ends are looking remarkably well, more particularly the 51, the bottom level, where they have come into a fine course of ore. In the back of the 71 the lode is worth from 4 to 5 tons of ore per fin.; and the winze below the 61, to meet this rise, is now worth fully 5 tons per fin. In fact, the mine is looking better than any in the Calstock district.

MINING IN THE ASHBURTON DISTRICT.—The Smith's Wood and Sigford Consols Mines have been inspected by the managing director (Mr. Whitton Arandell), and his reports are certainly of a most encouraging character. The wheel-pit at Smith's Wood is entirely completed, and is a most creditable piece of work; and owing to the large quantity of stone got out in excavating it, the necessary buildings have been erected at a much less cost than would have been the case had it been necessary to carry the material from a distance. The great thi lode has been opened on into the hill. From the enormous size of the lode, it has been necessary to open on it by removing the overlying rock and earth, indeed to work it very much in the way a quarry is worked. The lode still continues its great width, and the ore of the same rich quality. A vast quantity of rich tin ore is now and will be raised from this point, fined to taking down the loce, the whote of which consume to the says,—"The recent workings on these tin lodes confirm my opinion that they will certainly prove an equal source of wealth to the shareholders in this company as they are in the sister mine of Smith's Wood." Mr. John Parkinson, of the Temple, an adventurer in both mines, under date Sept. 3, writes:—"I senciose you copies of reports on Sigford Consols and Smith's Wood Mines, which I have, however, seen since their publication. I can fully corroborate all that has been said. The south tin lode has been openst upwards of 12 ft. without finding the north wall; and it is very evident that this and the north tin lode, from which it is now distant about 12 fms., units as

they get into the hill; as it is, the lode—24 ft. wide in one, and 12 ft. in the other—is a sight which may fairly challenge England to produce its equal. These lodes will have 50 to 60 fms. of backs above the levels on which they are driven; and it will be years before we shall require any other ald than the water-power, which is on a high enough level as to be able to drive three 40-ft. wheels in succession."

NANTEGOS AND PENRHIW.—The lode in the 30, at Bwlchgwm, has considerably improved, being now worth 10 to 12 cwts. per fm.

MOUNT PLEASANT LEAD MINE (Mold).—Such has been the success attending the working of this mine that dividends amounting to 32s, per share have been paid during the last three months, and we understand the prospects are as good as ever. GAWTON.—A considerable improvement has taken place in the 50. In cutting through the lode in the 35 they have had a large influx of water, which for the present has overpowered the machinery. The necessary arrangements are being made to overcome this difficulty. With this exception the mine never looked so cheering. PENHALDANVA.—In the adit cross-cut a cannoter lode has been intersected, composed of lead, blende, flookan, and mundie; a very kindly lode,

GREAT CRINNIS.—The lode in the 100 west is being carried for 7 feet wide, orey throughout, with a leader of ore on the north part 1½ ft. wide; good work for copper. The new shaft (sinking on the north lode) is down about 119 fms., and the 120 will be reached, and the lode cut, in about a fortnight. The water is flowing strongly from the wail, which indicates a lode of an open porous character. The cutting into the lode in the 120 will be an object of interest, as by the dip of the improvement in the 100 west it will reach the shaft at about the 130 fm. level.

PROSPER UNITED.—Last week a very trifling accident happened at Louisa's engine-shaft, through the parting of the bucket-rod, but it was quickly repaired, and the engine at work again in a few hours. It cannot be expected that the mine could be dra

CUDDRA.—At the last taking down of the local in the OW west it was one wide, worth 10 owts, of tin per 100 sacks. In the stope west of Walker's shaft the lode is 2½ ft. wide, and also worth 10 cwts. of tin per 100 sacks. In the other three stopes, in the 60, the lode will average 7 ft. wide, and is worth 2 cwts. of tin per 100 sacks. The machinery is in good working order, and the dressing and burning of tin is being continued daily. Monthly sales of tin will take place from this time. There is every prospect of this property becoming permanently remunerative.

SOUTH WHEAL FRANCES AND WEST WHEAL BASSET-(From a Cor SOUTH WHEAL FRANCES AND WEST WHEAL BASSET—(From a Correspondent).—It is much to be regretted that this annoying and very expensive dispute should continue to absorb the funds which would otherwise be available for dividends to the shareholders. Concerning the feelings of the adventurers in South Frances, we have not had the opportunity of learning much; but as to the feeling of West Basset adventurers, we can affirm that there are far more desirous to admit that they were wrong than to continue the hopeless dispute; yet the persistence of the few compels the West Basset adventurers to incur continued and enormous expenses. It seems so certain that the South Frances adventurers have right on their side, that all who give the subject their serious consideration must conclude that by going on with the appeal in the House of Lords further loss must be incurred by the West Basset.

OUR MINERAL WEALTH.—That the progress made in the development of our mineral wealth is continual and highly satisfactory, we have ever contended, and it is now incontestibly proved, that each year the working contended, and it is now incontestibly proved, that each year the working of mines presents a greater inducement to capitalists to embark in them, and, at the same time, that the amount of profits are every year greater. It is difficult to find a more certain proof of the increased profits of mining than that which is afforded by the improvement which has taken place in the amount paid for income tax. We regard this as a proper basis for calculation, because, inasmuch as the tax is only paid upon actual profits (and not always, probably, upon the whole of the profits), it cannot be objected that it may happen that returns have been obtained as a cost, which leaves no profit to the adventurers. As we have seen from the official returns of Mr. R. Hunt, F.R.S., the value of the mineral and metallic profits (unmanufactured) of the country is in round numbers at official returns of Mr. R. Hunt, F.R.S., the value of the mineral and metallic products (unmanufactured) of the country is, in round numbers, at 40,000,000L, and the Times of Thursday, comparing the amount of taxable incomes at the time when the income tax was first levied, compared with that of 1860, states that "In 1843 the mines of Great Britain were assessed on an income of 2,081,387L, and in 1860, on 4,015,455L, or very nearly double the former amount. Iron-works were assessed at 559,435L in 1843, and at 1,517,230L in 1860—a still greater increase," it follows that the profits derivable from mining equal upon the average about 15 per cent. But to give the precise figures we may state, upon the authorities we have named, that 5,532,685L has been realised upon the working and making marketable of mineral products worth 37,121,318L, and inasmuch as about one-fourth of the mines returning ore and mineral are only in course of development, it may fairly be assumed that the profit is equal to 5,500,000L upon 30,000,000L, or fully 18 per cent.—an amount of profit which will compete with any other class of industry in the country

We hear that a "Dialling Goniometer" has been invented, at Freiberg, by Professor A. Junge, which is of great simplicity of construction, but still enabling the dialter to obtain the greatest exactness in his surveys. We shall shortly be enabled to give a detailed description of the apparatus, which, no doubt, will be highly interesting to the mining public.

FOREIGN MINES.

which, no doubt, will be highly interesting to the mining public.

FOREIGN MINES.

Victor Emanuel.—Miggiandone, Aug. 29: We have shipped from this place to Swansea 85 tons of copper ore. The lode in the end of Thompson's level, which was not looking so well when we wrote last, is sagain improving for copper ore. No change of importance in any of the other workings.—Baveno: We had a crush of ground in Hey's adit during last week in the back of the level, which had been badly secured by the old men, and at a point where they had gone, as it appears now, through a decomposed channel of ground; all has, however, been again secured, and the driving of the adit is being continued. A tackle has been hung over the old winze in the Bealungo level, and we shall soon see now how the lode looks at this point in the bottom of the level. We are happy to inform you that we discovered last week, when examining the lode near the shaft of the Minera Vecchia, a splendid lode of very rich ore left standing by the old miners in one side of the shaft, which they sunk on the lode, and which is now full of water. The lode at this point, as far as we can see it above the water, is now about 3 ft. wide, composed of spar and copper ore, which if dressed would be worth from 16t. to 20t. per ton. We are now actively engaged in preparing everything for getting the water out of this shaft, and we have no doubt of our finding a rich lode in it.

LUSITANIAN.—Aug. 24: Palhal Mine—House Lode: The lode in it. 40, west of Oak shaft, is very small and unproductive. The lode in the 30 is 1 ft. wide, composed of flookan and small stones of mundle. The lode in the 20, west of the shaft, is 6 in. wide, producing stones of mundle. The lode in the 20, west of the shaft, is 6 in. wide, producing stones of mundle. The lode in the 50, east of Taylor's shaft, is bloow the 40, is 6 ft. wide, worth 1 ton of ore per fim. The lode in the 60, east of Taylor's shaft, is worth 3 tons per fin. The western end has not been driven since our last. The lode in the 38, e

The MUSEUM OF PRACTICAL GEOLOGY, Jermyn-street, will be re-opened to the public on Thesday next. During the vacation some important addition have been made to the wall decorations of the hall, consisting of inlaid slabs of polishes granites, porphyries, marbles, and alabaster, by Mr. Macdonald, of Aberdeen, and Mr Hall, of Derly. Some of these specimens have never before been employed in the Arts and deservatine statention of architects.

Workington Hematite Iron-Works Company.-At a meeting of been determined to wind-up the concern, and offer the works for es, two of which have never been "blown in," nor the engine attraction There are six furn

LEEDS, SEPT. 5.—Greater activity has been manifested in mining trans actions; improved rates have in some instances been established, and business is ing a more havourable aspect:—Brea Consols, 17s. to 18s.; Cornubia, 15s. to 18s. ven Moor, 3s. to 4s.; Hebden Moor, 1 to 14; Merryfield, 5s. to 6s.; Nidderdale prem.; North Hallenbeagle 15s. to 29s.; North Hallenbeagle 15s. to 29s.; North Jane, 24 to 29; Wensleydale 8s.; Yorkshire, 10s. to 12s. 6d.—John Gledhill and Co.

Bigo,—At Lelant, on Friday, Aug. 30, after a severe illness, Captain om STEVENS, of Pract Consols Mine, aged 64 years, desply regretted.

The Mining Market; Prices of Metals, Gres, &c.

METAL MARKET-LONDON, September 6, 1861.

COPPER. £ s. d.	BRASE, Per. 1b.
st selectedp. ton 101 0 0	Sheets 8%d9%d.
ugh cake n 98 0 0	Wire 914d,
0 98 0 0	Tubes 101/4d,-101/4d.
rra Burra 100 0 0	
plapo 96 0 0	FOREIGN STEEL. Per Ton.
pper wirep. lb, 0 1 016	Swedish, in kegs (rolled)
litto tubes " 0 1 1	, (hammered), 14 10 0-15 0 0
eathing & bolts 0 0 11	Ditto, in faggots 15 10 0
ttoms " 010	English, Spring 18 0 0-23 0 0
(Exchange) " 0 0 914	Bessemer's, Engineers Tool 44 0 0
	" Spindle 30 0 0
IRON. Per Ton.	QUICESILVER 7 0 0 p. bottla
rs, Welsh, in London. 6 5 0	
to, to arrive 5 17 6	FRELTER. Per Ton.
il rods 7 0 0	Foreign 18 10 0
Stafford, in London 7 0 0	To arrive 18 10 0-18 12 6
rs ditto 7 10 0-8 0 0	zinc.
ops ditto 8 10 0	In sheets 24 0 0
ects, single 9 0 0- 9 10 0	
, No. 1, in Wales 3 0 0-4 00	TIN.
fined metal, ditto 4 0 0-5 0 0	English, blocks117 0 0
rs, common, ditto 5 0 0	Ditto, Bars (in barrels) 118 0 0
to, merchant, in Tees 6 10 0	Ditto, Refined119 0 0
to, railway, in Wales 5 0 0-5 26	Banca120 0 0-
to, Swed. in London. 10 5 0-11 0 0	Straits118 0 0
arrive 10 10 0	TIN-PLATES.*
, No. 1, in Clyde 2 8 0- 2 10 0	IC Charcoal, 1st qua. p. bx. 1 8 0-1 9 0
tto, f. o. b. in Tees	IX Ditto 1st quality . 1 14 0- 1 15 0
tto, forge, f.o.b. in Tees	IC Ditto 2d quality , 1 4 6- 1 6 8
ffordshire Forge Pig. 3 10 0- 3 12 6	IX Ditto 2d quality , 1 11 0- 1 13
olsh Forge Pig	IC Coke 1 16-1 26
	IX Ditto " 1 7 6- 1 9 0
LEAD.	Canada platesp. ton 12 10 0-13 0 0
glish Pig 19 5 0-21 10 0	In London : 20s. less at the works.
tto sheet 20 5 0-20 10 0	
tto red lead 22 0 0	Yellow Metal Sheathing . p. lb. 9d91/d.
tto white 28 10 0-30 0 0	Indian Charcoal Pigs)
tto patent shot 22 10 0-23 0 0	
anish 18 10 0	in London
* At the works, 1s.	to 1s. 6d. per box less.

REMARKS .- The improvement in our market has been hitherto progressive, and has not as yet been checked by any reverse. The tenden the prices of most metals is still upwards, and speculators are sanguing to the future prospects of the market generally, though the legitimate de-mand has increased but little, the business now doing being mostly of a speculative character; the result, however, shows that those who went in for metals at the minimum prices have in many instances been considerable gainers, more especially in spelter and tin, the advance in which has been exceedingly rapid; but, judging from the actual consumption, prices can

exceedingly rapid; but, judging from the actual consumption, prices can hardly be expected to go much higher than at present.

COPPER.—In English descriptions a large amount of business is doing, and the price is very firm. Some few parcels of cake and tile in second hands have been sold during the week under price, but smelters and sellers generally are obtaining full rates. Holders of foreign are disinclined to accept current rates—Burra Burra is held for 100£ and upwards; Kapunds, 99£; Copiapo, 96£; Baltimore, 93£; Chilli, 90£, in Liverpool. Yellow metal not much enquired for.

IRON.—No actual improvement is manifested in the demand for railway iron, and the price remains as previously quoted—5£ f.o.b. at the works.

iron, and the price remains as previously quoted—5*l.* f.o.b. at the works. For merchant bars manufacturers are tolerably well supplied with orders, at prices varying from 5*l.* 2s. 6*d.* to 5*l.* 5s. at the works, and 6*l.* f.o.b. in London. Staffordshire makers are much in want of orders; they are obliged many of them to work short time, and in some cases not more than three or four days a week. Buyers, taking advantage of the emergencies of manufacturers, are enabled just now to arrange easy terms of purchase, though quotations are nominally the same as before. Swedish bars are slow of sale, some little enquiry exists for smaller sizes, but this is quite insuffi-

sale, some little enquiry exists for smaller sizes, but this is quite insufficient to give a firm tone to the market; parcels are offering, ex ship in the river, at 10% to 10% 5s., and 10% 10s. for arrival. Scotch pigs have fluctuated very slightly during the week, the highest price having been 51s. 9d. for mixed numbers, since which they are a little easier, business now doing at 51s. 6d. Shipping brands in quiet demand.

Lead.—The market for English pig remains quiet at 19% 5s. for ordinary, 20% 10s. for superior brands, Sheets inactive at 20% 5s. to 20% 10s.; patent shot, 22% 10s. to 23%; Spanish pig, 18% 10s.

Spelter.—The spelter market continues to exhibit considerable buoyancy, sellers hold firmly for 18% 10s., at which price 25 tons were sold today for cash, and even higher prices are reported to have been paid for arrival, with extended prompt. The stocks held in London amounted on the 1st of this month to 3715 tons, against 4711 tons at the corresponding period last month, having diminished nearly 1000 tons during the month of August, in consequence of the demand running almost entirely on the stock, but very few arrivals having taken place. Prices have advanced during the past month fully 2% 5s, per ton.

ZING in quiet demand at 24%.

TIN.—English descriptions in fair demand, and a further advance in

Tin.—English descriptions in fair demand, and a further advance in price is anticipated. Foreign show a steady disposition to advance. Fine Straits sold at 118L, usual East Indian conditions. Holders are particularly

Tin-Plates continue exceedingly dull, buyers are not to be tempted, though some very cheap parcels are offering in the market.

Steel.—English makes not much enquired for. A better feeling exists in Swedish keg, and prices are looking up; very little, if any, to be bought under 14t. 10s. to 15t.

GLASGOW, SEPT. 5.—Pig-iron continues quiet, but prices tend rather upwards. One or two parcels warrants changed hands to-day at 51s. 9d., various cash terms, closing steadily, sellers at the price prompt cash, buyers with eight days to pay. G.m.b., No. 1, 51s.; No. 3, 50s.

New York, Aug. 24.—Mr. T. J. Pope writes: Trade, checked for a time in its improvement by the disgrace of Bull's Run, is beginning again to revive, and from present indications our autumn trade may reach about two-thirds of its usual amount. Credit transactions now are very exceptional, business being done for prompt cash most generally: money is current to prime borrowers at 4 to 6 per cent.—Copper: Lake Superior ingot at the seaboard very scarce, in consequence of the recent very heavy transactions for European export, at 17% to 18c., cash per lb.; some 400 tons are now waiting shipment: market closes firm at 18c, to 18½.6. No change in yellow metal or copper sheathing. Iron continues duil for bars at old quotations. Scotch pig sells slowly at \$20 to \$20 cash, according to brand. American pig-iron sells at \$16 to \$17, cash per ton.—Spelter: Holders at 4c. cash, demand quiet.—Tin: An improved demand has put up prices to 26½.6. to 26c. per lb. for Stratts, and 27½.c. to 28c. for Banca. Buyers free at 24c. to 24½.6. Stratts, and 26c. to 26½.6. Banca, nett cash.—Plates: Demand improving, but prices irregular:—½x sells at \$15 to 48, cash. Coke tern at 5½ to 25½. Coke tin, 80 to 85½, cash, 1xx, lxxx, 14-20 tin are still scarce.—Zinc: Sheet duil, at 6c. to 6½c. per lb., cash.—Lead; last, 124, cash per lb.

Boston, Aug. 15.—The transactions in mining shares, since our very transfer.

Boston, Aug. 15.—The transactions in mining shares, since our report of June 15, have been very limited. The decline in prices has followed, in a measure, the downward course of ingot copper. It may be fairly inferred then that, with any considerable advance in the price of that article, ferred then that, with any considerable advance in the price of that article, mining shares will also have an upward tendency. It would seem as if refined copper could not remain much longer depressed. The low prices have induced large exports; about 9,000,000 lbs. for the six months ending June 30, against about 9,000,000 for the previous 12 months. Foreign ores cannot be imported profitably, and the supply from Lake Superior will cease with the close of navigation in that region, an event which may take place in less than 100 days. Meanwhile, costs of production have been materially reduced, so that nearly every mine now wrought is at least paying its expenses. Unless the price of copper should recede materially, the mines that have heretofore paid dividends will continue to pay a fair interest on present prices, while others will diminish their indebtes or increase their working capitals. The aggregate product of refined copper from Lake Superior for 1861 is estimated at 7000 tons, against 6000 tons last year. Ingot copper is in demand at 174, cents, and larger quantities for export at 174, cents.—Durge, Beck, and Sayles.

The Tin Trade.—Mr. N. Brosheaut (Coll and Contractions).

THE TIN TRADE.—Mr. N. Breebaart (Goll and Co., Amsterdam), under date Aug. 31, writes—The first part of this month passed over without any incident of importance. The market was quiet, but a less degree of depression was observable, and it was plainly to be seen that there was very little disposition on the part of sellers to entertain offers at 67 ft. and 67 /61. The small lots which came in the market as such prices found a ready sale, and although there were large orders in the market, limited at lower rites, foreign buyers would not hither devance on their offers. In proportion, however, that we came nearer to the prompt the market became firmer, and all expectations of holders showing themselves more cager sellers at this period disappeared entirely, when 500 slabs were taken at 68 ft. The Euglish smelters having in consequence advanced their prices 3t., a further sale took place here of 1000 slabs at 69 ft., and on 'Change 70 ft. was paid for 500 slabs, and even at the price there are but very few sellers.

The stock on warrants amounted on July 31Slabs Deliveries in August	140,739		130,502 30,000		126,728 13,045
	94,011 21,869 Il towar	ds the	100,502 23,146 prompt	bave	, there-

orders, given under the impression of a fail, still remain unexecuted, this circum alone warrants us in expecting a continued demand and a lasting improvement, a more so from the fact that certain Rotterdam houses have not been able to cover which at the time they were made by them were uncovered.

The MINING MARKET has worn a very active appearance since our last, and a large amount of business has been transacted. The improvements in metals, the fine weather, and the cheapness of money, combine, as we expected they would, to add to the buoyancy of the general markets, and to bring numbers of buyers into mines which had been so long depressed. The principal transactions have been in Cook's Kitchen, Copper Hill, East Caradon, East Russell, West Seton, Wheal Seton, East Carn Brea, East Grenville, Carn Camborne, Great Retallack, Marke Valley, North Downs, North Treskerby, West Trevelyan, Providence Mines, West Caradon, Tincroft, Wheal Grenville, Wheal Ladcott, Wheal Margaret, Wheal Unity, Hingston Down, Lady Bertha, South Frances, Tolcarne, West Rose Down, New Treleigh, and several other shares. It will be observed, also, that a good rise has taken place in the price of many shares, owing, in some cases, to improvements and discoveries, and in others to the rise in tin. Copper Hill shares advanced to 120, and leave off 112½ to 117½; the winze below the 50, at the junction of Michell's with Paddon's lode, improved again to 10 tons of rich ore, causing fluctuations. The 60, on Paddon's lode, we hear, driving towards the junction, is worth 21L. per fathom; this is 15 fms. behind the winze, and the ore of the same rich character; this will also form a junction with Michell's lode, about 2 fms. before getting under the winze, and it will thus be seen there are still good points to come off. East Caradon shares have advanced to 273, 284: the 60 east in metals, the fine weather, and the cheapness of money, combine, as we

jode, we hear, driving towards the junction, is worth 21*k*, per fathom; this is 15 fms. behind the winze, and the ore of the same rich character; this will also form a junction with Michell's lode, about 2 fms. before getting under the winze, and it will thus be seen there are still good points to come off. East Caradon shares have advanced to 27½, 28½; the 60 east, on caunter lode, is worth 90*k* per fm.; the 60 west, 20*k* per fm.; the 50 east, 25*k*. The branch in the 60 cross-cut south is cut into about 1 foot wide. An important thing in the mine is that both the 50 and 60 fathom levels east are getting larger and richer. The next sampling will be over 300 tons for the month. Marke Valley, 10 to 10½; the mine continues to look well. Cook's Kitchen shares have advanced to 30, 31; a dividend of 5s. was declared at the meeting. Wheal Seton, 75 to 80; the lode at the 140, we hear, is worth 30*k* per fm., and dipping towards the old lode. The shaft is only down to the 140.

Brynford Hall, 21 to 23; Camborne Vean, 1½ to 2½; North Treskerby, 23 to 25; at the meeting the profit on the two months was about 320*k*, leaving a balance of 660*k* in hand. The 57 east is valued at 20*k* per fm. or 25 fms. long, and a rise in the back at 40*k* per fm. East Carn Brea, 8 to 8½. East Russell shares have improved from 3 to 3½, 3¾, and there has been a demand for them. Great South Tolgus, 4 to 4½; Great Wheal Fortune, 12½ to 13; Herodsfoot, 34 to 35. South Frances, 120 to 125; at the meeting, on Monday, the accounts showed a profit on the two months of 404*k*. 7s. 8d., and a dividend of 1*k* per share (496*k*) declared, leaving 1918, 12s. 6d. in hand. The agents observe that the ends in the mine are not quite so productive for copper ore as on some former occasions, but they make special reference to the discovery of tin of a rich nature in the 134, and the promising appearances—identical with the 134—of the 124, 144, and 154 fm. levels; and should the lode continue productive, the easy nature of the ground will be appearances nation. Orea restators states have also been much in demand, and advanced to 25s., 27s. No alteration at the mine, but we understand pitches have again been set on the bleude, and that large quantities will be raised. New Treleigh, 38s. to 40s.; the lode in the 80, cast of Carr's shaft, will produce 3 tons of ore per fm.; the winze below the 70 also 3 tons, and the mine looking well. Calvadnack shares have advanced to 8½, 9; in demand and scarce. Devon Great Consols have improved to 350, 360. Drake Walls 18s. to 20s. the mine has sold 25 tons of in which will be a sold 25 tons of in which will be sounded. produce 3 tons of ore per fm.; the winze below the 70 also 3 tons, and the mice looking well. Calvadnack shares have advanced to \$\frac{3}{2}\$, \$\frac{1}{2}\$ in demand and scarce. Devon Great Consols have improved to \$350, 360. Drake Walls, 18s. to 20s.; the mine has sold 25 tons of tin, which will leave a profit of 500\(Look). On the month's working—10\frac{1}{2}\$ tons brought 71\(Look). Per ton—14\frac{1}{2}\$ tons 67\(Look). To the month's working—10\frac{1}{2}\$ tons brought 71\(Look). Per fon—14\frac{1}{2}\$ tons 67\(Look). To the month's working—10\frac{1}{2}\$ tons brought 71\(Look). Per fon—14\frac{1}{2}\$ tons 67\(Look). To the month's working—10\frac{1}{2}\$ tons brought 71\(Look). Per fon—14\frac{1}{2}\$ tons 67\(Look). To the month's working—10\frac{1}{2}\$ tons brought 71\(Look). Per fon—14\frac{1}{2}\$ tons 67\(Look). To the month 72\(Look). To the mont

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On the Stock Exchange, there has been a brisk enquiry for Mining Shares during the week. The following prices were officially recorded in British Mining Shares:—Devon Great Consols, 350, 352, 350; East Caradon, 25½, 25½, 26½; East Wheal Russell, 3½, 3½; Great South Tolgus, 4; North Downs, 5½, 5½, 5½; Providence, 39; West Caradon, 38, 37½, 38; West Basset, 16½; Hingston Down, 3½. In Colonial Mining Shares the prices were:—Bon Accord, 1; Great Northern Copper of South Australia, 1½; Port Phillip, 1. In Foreign Mining Shares the prices were:—St. John del Rey, 37, 37½, 37½, 38, 38½, 38½, 38½, 39; Cobre Copper, 36½, 35½; United Mexican, 5½, 5½, 5½, 5½.

The closing quotations for shares in new undertakings were:—Ocean Marine Insurance, 4½, 5 prom.; Thames and Mersey Marine, ½, 1 prem.; Universal Marine Insurance, 1½, 1 dis.; London and Provincial Marine, 5-16 prem.; Commercial Union Fire, par, ½ prem.; East del Rey, 2 prem.

COAL MARKET.—On Monday, the arrivals amounted to 76 ships, and formed with the residue from last week a larger supply of house coal than the market required. The amount of business done was trifling, and without alteration in prices. In Hartley's and manufacturers' the same dulates was apparent. Best house coals, 17s. 6d. to 18s.; seconds, 15s. to 16s. 6d.; Hartley's, 15s. to 16s.; manufacturers', 12s. to 14s. 6d. per ton.—On Wednesday, only 17 ships having come forward, the tone of the market was stronger, and a fair quantity of sales was effected, at fully

Monday's quotations for all descriptions.—On Friday, 48 fresh ships arrived. The market was firm for house coals, at last day's prices. Hartley's and manufacturers' heavy, and slightly lower. South Hetton Wallsend, 18s.; Lambton Wallsend, 17s. 6d.; Braddyll Wallsend, 16s. 9d.; Tees Wallsend, 17s. 3d. per ton. Hartley's, 14s. 6d. to 16s.; manufacturers', 12s. to 14s. 6d. per ton: 18 cargoes unsold; 120 ships at sea.

The importation of coal into London by sea in the month of August was 933 ships, containing 301,505 tons, being an increase on the corresponding month in 1860 of 13,376 tons. The importation of coals into London by railways and canals in the month of August was 123,452 tons, being an increase on the corresponding month in 1860 of 10,660 tons.

Lyverpoor, Coal, Trade.—From the Coal Circular of Messrs. Platt.

LIVERPOOL COAL TRADE.—From the Coal Circular of Messrs. Platt, we learn that the quantity of Cannel, coal, coke, and patent fuel shipped at Liverpool in August was 62,528 ton, and in the corresponding month of last year 64,440 tons, showing a decrease last month of 1917 tons. The total shipments from Jan. to August were 440,504 tons; same period, 1860, 479,338 tons; decrease this year, 38,834 tons. The exports of coal coast-wise during August were 8,994 tons, same period, 1824 tons, 1824 to wise during August were 8294 tons; same month last year, 14,924 tons; decrease in August, 6630 tons.

 At Pool Ticketing, on Thursday, 2968 tons of ore were sold, realising 20,217l. 9s. The particulars of the sale were—Average staudard, 127l. 8s.; average produce, 74; average price per ton, 6l. 16s.; quantity of fine copper, 222 tons 15 cwts. The following are the particulars:—Date.
 Tons.
 Standard.
 Produce.
 Frice per ton.
 Ore copper.

 Aug. 1.
 3778
 £124
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 £41
 6
 £41
 6
 £73
 10
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 82
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 3016
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 81
 36
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 36</td Compared with the sale of last week, the advance has been in the standard 8s. 6d., and in the price per ton of ore about 7d. Compared with the corresponding sale of last month, the advance has been in the standard 8l., and in the price per ton of ore about 10s. 6d.

At the Swansea Ticketing, on Tuesday, 2462 tons of ore were sold, realising 36,6767. 18s. 6d. The particulars of the sale were—Average standard, 1051. 10s.; average produce. 16\frac{1}{4}; average price per ton, 141. 18s.; quantity of fine copper, 400 tons 1\frac{1}{4} cwt. The following are the particulars of the sole derivative typest results. of the sales during the past month:-

 Date.
 Tons.
 Standard.
 Produce.
 Price per ton.
 Ore cop

 ruly 30.
 1071
 £ 96
 9
 1834
 £ 15
 17
 0
 £34
 10
 10
 284
 10
 10
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 10
 10
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 11
 13
 10
 8
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 gulus, Cronebane, Tigrony, &c. -

gulus, Cronebane, Tigrony, &c.

At South Wheal Frances meeting, on Monday, the accounts for June and July showed—Balance last audit, 2010. 4s. 10d.; copper oresold, 2588. 12s. 11d.; tin sold, 1521. 18s. 8d.; old rope sold, 6l. 6s.—4788l. 2s. 5d.—Mine cost, merchants bills, and sundries, 2343l., 9s. 11d.; leaving credit balance, 2414l. 12s. 6d. A divident bills, and sundries, 2343l., 9s. 11d.; leaving credit balance, 2414l. 12s. 6d. A divident of 496l. (11. per share) was declared, and 1918l. 19s. 6d. carried to credit of next account. The subject of nominating a third agent in the room of Capt. Bennett, who had resigned, was introduced. Mr. William Harris, of Pool, stated he considered it was a public duty, before nominating anyone for the situation, that the adventurers should conside how far it was expedient for a regularly accredited agent of that nine to accept the manager of that mine, was a person in whom he had every confidence, but he perceived on looking in Williams's Directory that he was the manager of no less than six different mines, and he felt certain that Capt. Pascoe could not do justice to all of them. Capt. Pascoe said that it was impossible for an agent to do more than he did for South Frances, going underground not less than four days in every week. A rather long and important discussion ensued, and ultimately it was decided that no agent of the mine should for the future undertake any duties connected with other mines without first obtaining the written consent of the adventurers or their Chairman. Capt. Pope was elected an agent in the place of Capt. Bennett. Mr. Broad stated that he regretted to have to inform the adventurers that no decision had been yet come to in the law proceedings between them and West Basset, nor could anything be decided until the next meeting of Parliament, the appeal having been carried into the House of Lords, but the committee felt morally certain that the decision would be in their favour, as it had been on previous occasions.

At the New Birch Tor and Vitifer Consols Mine general meeting, on nesday (Mr. Joseph Procter in the chair), the accounts were audited, and a dividend of Tnesday (Mr. Joseph Procter in the chair), the accounts were auditus, per share declared. The report is among the Mining Correspond

Thesaay (Mr. Joseph Poeter in the charry, the accounts were audited, and a dividend of 1s, per share declared. The report is among the Mining Correspondence.

At Cargoll Mine meeting, on Monday, the accounts for the three months ending June showed—Balance last audit, 11181, 11s. 1d.; ore sold, 23821. 1s. 7d. = 33311. 3s. 8d.—Mine cost, merchants' bilis, and sundries, 28911. 10s. 2d., leaving credit balance, 6001. 13s. 6d. The profit on the three months' working was about 4007.

At Balleswidden Mine meeting, on August 27, the accounts showed—Wages, April, May, and June, 28061. 12s.; coal, 527 tons 7 cwts., 3331. 3s. 8d.; carriace, 1551. 19s. 7d.; merchants, 9271. 15s. 10d.; dues, lord's and bounds, 1271. 8s. 6d. =43491. 10s. 7d.—Tin sold, 42061. 0s. 10d.; clues, lord's and bounds, 1271. 8s. 6d. =43491. 10s. 7d.—Tin sold, 42061. 0s. 10d.; clues, lord's and bounds, 1271. 8s. 6d. =43491. 10s. 7d.—Tin sold, 42061. 0s. 10d.; clues, lord's and bounds, 1271. 8s. 6d. =43491. 10s. 7d. =4001. 17571. 11s. 8d.), the other 11. 6s., 946. per share was made, to be paid immediately, and two other calls, one at 11. 6s. 10d. (amount, 17571. 11s. 8d.), the other 11. 6s., 946, per share (amount, 17541. 1rs. 1d.), to be paid on Dec. 31, and the last on March 31 next, making together 41671. 10s. 8d.; the difference, is. 11d., to be charred to next account. At Grambler and St. Aubyn Mines meeting, on Tuesday, the accounts showed—Labour cost for June and July, 4971. 9s. 10d.; merchants' bilis, 1521. 9s. 4d. = 6491. 19s. 2d.—By copper ores sold, 2521. 1ss. 3d.; showing a loss on the two months' working of 3971. 5s. 11d.—less balance in hand last and ti, 1001. 6s. 6d. =2371. 5s. 5d.—By correspondence.

At the Clifford Amalezamated Mines meeting, on Ang. 30, the proposic.

6491, 19s. 24.—By copper ores sold, 2521, 18s. 3d.; showing a loss on the two months' working of 3971, 5s. 11d.—less balance in hand last andit, 1004. 8s. 6d.—2977. 5s. 5d.—3y call, 4861.; carrying to next account, 1881. 14s. 7d. The report is among the Mining Correspondence.

At the Clifford Amalgamated Mines meeting, on Aug. 30, the proposition for amalgamating United Mines and Wheal Clifford and Consols (referred to in the Mining Journal of July 30) was finally confirmed. Each Wheal Clifford share will represent fore Clifford Amalgamated shares; and each United Mines share will represent one Clifford Amalgamated shares. The mines will henceforth be conducted by a honorary committee, consisting of Messrs. W. Williams, F. M. Williams, R. Davey, H. Grylis, R. Lanyon, E. H. Hawke, and R. R. Broad. The committee will be open to adventurers on account days. Capt. John Richards is to be manager; Messrs. W. Williams and R. Davey are to be honorary finance committee, to endorse all bills and sign all cheques, and Mr. H. Sims cashier under them; and the Corolah Bank at Redruth to be the bankers. The parties who have relinquished the 20 shares in United Mines will be offered 35t, per share, payable in two years, and subject to the deduction of all costs to time of relinquishment. In case of refusal they will be required to send an agent within 10 days, that the material may be valued.

At the North Treskerby Mine meeting, on Tuesday (Mr. Matthews in the chair), the accounts for the quarter ending July showed a debit balance of 397t. 8s. 2d. A call of 10s, per share was made, being about 4s, per share division of cost, and the remaining 6s, per share for the further prosecution of the mine. The manner in which the calls were responded to gave much satisfaction, the arrears being 70t. only. This mine is being vigorousley prosecuted, and now that the machinery at surface is nearly completed good results may be looked forward to, from the good situation of the mine; and the agents concluded their report by saying, from wha

	LEAD O	RES.		
	Sold on the 31st	August		
Mines.	Tons. P	rice per	ton.	Purchasers.
Newtownards	75	£11 3	0	Sims, Willyams, & Co.
	Sold on the 2d S			
East Logylas	60	11 1	0	Panther Co.
Glogfach	55	14 4	0	Sims, Willyams, & Co.
ditto	60	11 6	6	ditto
	Sold on the 3d S	eptember	ř.	
Isle of Man Mining Compar	ny100	20 18	6	Walker, Parker, & Co.
Minera	90	11 12	6	Newton, Keates, & Co.
ditto	85	11 11	0	ditto
ditto	75	11 11	0	Walker, Parker, & Co.
ditto	85	11 15	0	Adam Eyton.
ditto	3714	11 17	6	ditto
ditto	371/2	11 17	6	Locke, Blackett, & Co.
Llanfair	22	23 R	0	Sims, Willyams, & Co.

					BL	AC	K	T	IN.				
				8	old or	the	12	th .	Augus	rt.			
Mines. To	ms	c.	q.	lbs	. P	rice	per	tor		Amo	int.		Purchasers.
Prideaux Wood	2	0	3	11		263	0	0	2	£ 128	13	5-	_
ditto	0	3	1	9		47	0	0		7	16	G	-
Fowey Consols	0	8	2	22		63	0	0		27	7	11-	CHARGE.
ditto	0	0	2	24		47	0	0		1	13	7-	-
			80	ld o	n the	150	an	d I	9th A	ugust.			
Par Consols	69	1	1	16		65	0	0		4489	10	4-	-
										Augu			
W. Fowey Cons	49	12	3	8		65	0	0		3226	13	3-	400
				8	old or	1 the	28	th .	Augus	it.			
St. Day United	29	15	3	18		58	0	0		1728	2	9-7	rethellan.
									Lugus				
Gurlyn	7	-0	3	5		66	5	0		466	7	6-0	hvandour.
Drake Walls	10	10	0	0		71	0	0		100			. G. Tyrle.
ditto	14	10	0	0		67	10	0		100			dichell & Co.
									tembe				
Gt. Wh. Busy	16	5	1	22		63	0	Ó		1025	- 3	1-1	Bissoe Co.
ditto	0	15	0	5		60	0	0		45	2	8-	ditto
ditto		-		-		4.0	-	-		900	- 9		

COPPER ORES.

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Mines. Tons.				Mines. Tons. Produce, Price.	
Cobre 76			0 0	Springoon 11 10 1111 21 11 220 1	0
ditto 75			8 0	unto # 02 20 10	0
ditto 57			5 0		0
ditto 55			8 0	** Heat Marin, 01 2079 20 10	0
ditto 53			7 6	CHOM II I	0
ditto 11			8 0		6
ditto 1			0 0		6
ditto 96			7 6		0
ditto 82			7 0	mitter at 10./4 10 0	0
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ditto 88	1314	11	5 0		0
ditto 80	1814	11	6 0	ditto 44 1734 15 19	0
ditto 78	1312	11	8 6	Laxey 91 614 5 11	0
ditto 48	23	20 1	17 0	Garrucha 47 634 5 10	0
ditto 48	23	20	3 0	ditto 21 514 4 5	0
ditto 9	5314	47	2 6	ditto 15 1814 16 13	0
ditto 7	51%	46	17 6	ditto 1 41% 37 8	0
Berehaven128			15 0	Spanish 38 12 11 1	6
ditto 80	105%	9	11 0	ditto 2 35 30 10	0
ditto103			15 0	Lochwinnoch. 22 356 3 2	6
ditto 84		8	14 0	ditto 13 41/4 3 12	6
Ookip 50			19 0	Eng. & Cana 30 22 19 18	0
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ditto 46	34	31	15 0	African 15 16 14 10	0
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oping				RODUCE.	
Cobre	932 £1			Laxey 91 £ 505 1	0
Berehaven		3,952		Garrucha 84 734 18	0
Ookip		6,600		Spanish 40 481 17	0
Springbok		3,160		Lochwinnoch 35 115 17	6
Wheal Marie		869		English and Cans 30 597 0	0
Cuba		3,808		Turkish 25 251 17	6
Knockmahon		425	0 0	African 15 217 10	0
Del Soto		1,547	3 0	Spanish 5 21 10	0

ckmahon 100 425 0 0 African	15			10
Soto 97 1,547 3 0 Spanish	***** 8		21	10
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Total 2462 £36,676 18 6 Copper Ores for sale at Swansen, Sept. 17.—Cuba 93, 86, 77, 8, 7, 8, 95, 93, 99, 11—
Berchaven 128, 121, 102, 79—Cobre 101, 93, 16, 9—French ore 100, 100—Great Northern
Mining Company of South Australia 49, 48, 39—Spanish 52, 48, 4, 1, 1—Knockmahon
99—Lockwinnoch 64, 32—Worthing Regulus 23—Australian 12, 6—Chili roe 5—Chili
regulus 2—Cronebane 2, 1—Tigrony 2, 1—Phœaix regulus 2.—Total, 1910 tons.

AVERAGES.
Produce.
Price.
British \$8\frac{1}{2}\$ \times 8 1 0 \times \times 115 19 0
Foreign 18\frac{3}{2}\$ 17 4 0 103 17 0 Sale...... 16)4 £14 18 0 £105 10 0 Totals—British, 621; Foreign, 1841=2462 tons (21 cwts.)

COPPER ORES.

Sampled Aug. 21, and sold at the Basset Arms Hotel, Pool, Sept. 5.

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TOTAL PRODUCE.		

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 Wheal Seton, &c.
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COMPANIES BY WHOM THE ORES WERE PURCHASI	ED.		
Mines Royal Co	19	3	6
Vivian and Sons 281	5	9	3
Freeman and Co 64	0 1	1	6
Grenfell and Sons 484 401	3	4	6
Williams, Foster, and Co 661 486	19 1	12	9
Mason and Elkington 475% 835	3	1	2
	6	0	0
Copper Miners' Company 300% 200	9	9	8
Charles Lambert 17216 100			2
Newton, Keates, and Co 113 78	1	9	6
Sweetland and Co 67 34	1 1	4	0
Total	7	9	0

Copper ores for sale on Thursday next, at Tabb's Hotel, Redruth.—Mines and parcels. West Basset 466—Great Aifred 440—Aifred Consols and Latty 267—Far Consols 264—East Carn Brea 247—Wheal Margery 243—Copper Hill 196—Tolvadden 190—Wheal Buller 112—Wheal Anna 103—West Aifred Consols 95—North Basset 91—Great South Tolgus 81.—East Rosewarne 65—Wheal Agar 61—West Trevellyan 44—South Crewer 31—Bolting Well 27—Pedn-an-drea 18—Clijah and Wentworth 18—Rosewarne and Herland 4.—Total. 3063 to 200—100.

31—Boiling Well 27—Fedia-an-drea 19—Cajan and websited at America and par-land 4.—Total, 3668 tons.

Copper ores for sale on Thursday week, at the Royal Hotel, Truro.—Mines and par-cells.—Devon Great Consols 203—Phomix Mines 512—Marke Valley 352—East Caradon 392—Hingston Down 300—Holimbush 280—East Russell 272—Lady Bertha 235—West Caradon 234—Bedford United 214—Gunnis Lake (Clitters) 205—Okel Tor 192—Wheal Emma 159—Wheal Friendship 155—South Bedford 125—Collacombe 104—Calstock Consols 102—Wheal Yarner 101—Kelly Bray 70—Bedford Consols 43—Trehill 40—Wheal Arthur 36—Hawkmoor 35—Brookwood 33—Gawton Copper 32—Furadon 30—Harvey's Call 4.—Total 6211 tons.

				FIR	181	SALE	IN	8	EP	TEMI	BE	R.								
Year		Tons.		Prod.		Amor	int.			Stan	dar	d.		Ore o	opp	er	. (ake	cop	'n
1851	********	3505		756		£17.544	5	0		£102	2	0		£65	19	0		£84	0	
1852	*********	3295		612		19.744	4	0		134	2	0		92	6	0		102	10	
1853		2655		BIZ	**	15.438	7	0		132	3	0		89	15	0		107	10	
1854	*********	2585	**	A24	**	14.704	5	ò		143	16	0		96	5	0		126	0	
1855	*********	9970	•••	71/	•••	10 105	15	6		143	16	0		107	1	0		126	0	
1956	**********	2000	**	772		90 119	4	0	**	199	18	0		91	18	0		107	10	
1857	**********	9691		037		10,110	15	a	**	145	10	0		118	5	0		121	10	
1001	***********	2001	**	0.94		10,771	10	e		194	17	0	•••	97	9	0		107	10	
1000	***********	9193		129		20,133	20	×		109	**	A		97	15	0	••	107	166	
1859	*********	3005		776		20,362	13	U		120	- 4	, o	*	01	A		••	100	20	ä
1860		3134		756		20,726	. 8	v	4.0	129		v	**	91		٧.	**	100	225	ä

[PROSPECTUS.]

THE EAST DEL REY MINING COMPANY (LIMITED). PROVINCE OF MINAS GERAES, BRAZIL. Capital £75,000, in 25,000 shares of £3 each; £1 paid. To be incorporated under Limited Liability.

DIS, Esq., Corn Exchange. THORNTON BROWN, Esq., 4, Adam's-court, Old Broad-street.

HARD THORNTON BROWN, ESQ., 9, AMBRID STORMS, ON A PROSECULAR HIS FISHER, ESQ., 61, Eston-square, Roke Manor, Romsey, Hants. WARD HUGGINS, ESQ., Broad-street, Golden-square, BANKERS—The Union Bank of London.

BROKERS—Messr. Hill, Fawcett, and Hill.

TEMPORARY OFFICES,—29, THREADNEEDLE STREET.

The object of the present undertaking is to develope an extensive mineral property which has been acquired by this company, in that district of Brazil where the mines of the St. John del Rey Company are situated. The estate is three mites long by about 1½ mile in breadth, and the lodes are in every respect similar in formation and characte to those of the celebrated Morro Veiho Mine. The facilities for working them are, how ever, much greater, and the outlay required to bring them into a profitable state comparatively amail.

paratively small.

The property has been ceded to this company under an agreement for a lease for fifty years; and the purchase of the buildings, stamping machinery, and water-wheels, in fact the whole mining plant, has been effected for the sum of £2500, and this, with the exception of a royalty of 3 per cent. on the gold, is all that the company will be called upon to pay for the property until after the shareholders shall have received £10,000 in dividends, then a sum of £10,000 has to be paid to the grantor, and a second and final £10,000 after £20,000 has been received in dividends by the proprietors, so that the sum of £2500 is all which will be paid on account of the purchase until the mines shall have returned very considerable dividends.

The estate has been carefully surveyed by Capt. William Treloar, whose report can be obtained at the offices of the company; and from this it would appear that, from the great magnitude of the many lodes on the estate, the favourable indications presented at surface, the advantages it offers for facility and economy in working, the great waterpower, and the favourable position for obtaining native labour and supplies, the success of the East del Rey Mining Company can scarcely be doubted.

It is proposed to carry out the recommendations of Capt. Treloar as to working the Emily and Capió Mines simultaneously, and also to follow his suggestions as regards the application of the water-power, and to complete the deep add tevel, which is already half executed, so that during the development of the former mine the latter may, by its returns of gold, contribute to assist the necessary outlay.

The directors are desired. rty has been ceded to this company under an agreement for a lease for fift;

half executed, so that during the development of the former mine the latter may, by its returns or gold, contribute to assist the necessary outlay.

The directors are desirous of calling attention to the fact that this company forms an exception to mining undertakings generally, as it assumes more the character of a commercial enterprise than a mining adventure; and following the successful example of the St. John del Company, it in a great measure relies for a large produce, not on a discovery of gold veins or bunches, but on the application of a vast mechanical power on auriferous lodes already laid bare, and many of them profitably worked upon for upwards of a century. And while it is probable that very large returns may accure from the small portion of the capital now raised, it is not contemplated that, under any circumstances, more than £50,000 will be required to produce most favourable results, so that any such success as the St. John del Rey Company has met with would yield enormous dividends upon the outlay, the capital of that company bearing a market value of nearly

£400,000, and the returns of gold during the last months being at the rate of upward of £180,000 per annum.

The directors have secured the services of Capt. William Treloar as superintendent and principal mining captain, whose twenty years residence in Brazil, eight years of which have been in the employ of the 8t. John del Rey Company, render him peculiarly qualified to fill that appointment.

A very large portion of the capital has already been subscribed. Prospectuses and forms of application for the remaining shares may be obtained of Messrs. Hill, Fawcett, and Hill, 29, Threadneedle-street, the brokers of the company; or of the solicitor, W. W. Fishitz, Eaq., 3, King-street, Cheapside; or at the temporary offices of the company. The amount of £1 upon each share applied for must be paid to the company; abakers previously to the application being sent in; this sum will be returned if, on allotment is made to the application.

No application for shares will be received after the 11th inst.—Sept. 5, 1861.

THE VICTORIA SILVER, LEAD, AND ZINC COMPANY

THE VICTORIA SILVER, LEAD, AND ZINC COMPANY

(LIMITED).

Capital £30,000, in 3000 shares of £10 each. Fully registered July 15, 1861.

FIGURISONAL DIRECTORS.

ALEXANDER KEILLER, KR., GOTTENDURG.

ALEXANDER KEILLER, Jun., ESQ., GOTTENDURG.

REUBEN TURKER, ESQ., Tibbington House, Tipton.

WILLIAM WHEELIHOUSE, ESQ., Boston Spa, Tadcaster, Yorkshire.

JOHN WHITEITEAD, ESQ., Boston Spa, Tadcaster, Yorkshire.

EDWARD SHELLEY, Deanery, Wolverhampton.

JOHN CON, ESQ., Hawthorn Villa, Rainhill, Laucashire.

(With power to increase).

London Solicitors—Messrs, Varborough and Wilkinson, 44, Lincoln's Inn-fields.

CONSULTING ENGINEER—John Darlington, ESq., 26, Gresham-street, London.

BANKERS—Wolverhampton and Staffordshire Banking Company.

SECRETANY—Mr. Edward Shelley, Deanery, Wolverhampton.

The objects of this company are to work a group of mines in Sweden, containing large cauries of very rich silver-lead ore, zinc ore, and sulphur ore; and to creet eventually ead and zinc smelting works sufficient to reduce 1000 tons of lead and 3000 tons of zinc era annum.

lead and zinc smelting works sunctent to reduce 1000 tons of lead and 3000 tons of zinc per annum.

The mines employ about 50 men at present, but are capable of employing 200 forthwith. They are all open to the day, and the ores are not found in uncertain veins, lodes, strings, &c., as in British mines, but are diffused everywhere, and everywhere to be seen throughout the whole mass of the deposit, the average yield of which is 29 per cent. for zinc, and 6 per cent. for lead, while massive samples give from 40 to 80 per cent. of lead, and from 40 to 60 of zinc. The lead contains an average of 40 czs. of silver to the ton, and richer samples contain from 40 to 80 czs. Nearly 20,000 tons of stuff have been broken during the last 21 months, yielding the above average, and the mines are sufficient to yield ample ores for the above intended make for many years to come. The lease is for 60 years.

The mines and the undertaking have been minutely examined, and a report stating the results, and special information on every subject, has been rendered by John Darlington, Esq., to which special attention is hereby called.

The zinc works are intended to be erected at or near Hartlepool, because the ores can be brought there direct. Coals, siack, and clay are cheap, and there is good transit thence by land and sea.

The lead works will be erected at the mines, there being sufficient water-power, free

land and sea. The lead works will be erected at the mines, there being sufficient water-power, fre

by land and sea.

The lead works will be erected at the mines, there being sufficient water-power, free of cost, for blast, crushing, dressing, and other operations.

It is calculated that these objects can be best secured to the extent proposed with a capital of £30,000, applied thus:—£3000 in can and £3000 in free shares to leasors, £3000 for works in Sweden, £4000 for zinc works, and £13,000 for extension of works and reserved and working capital.

The report estimates the profit upon lead at £14 7s. 9d. per ton, the sliver alone being eight guineas; and upon zinc £5 2s. 10d. It is believed that from 10 to 15 per cent. profits will be made the first year, and when the works are in full operation from 30 to 50 per cent. yer annum: 10 per cent. upon the capital paid up will first be given out of profits to shareholders, and the remainder will be given—two-thirds to the shareholders and one-third to leasors. It is intended to begin lead smelting as soon as sufficient capital is subscribed, a large quantity of ore being nearly ready for the furnace.

Sweden is two days' sail direct from England. It possesses a high degree of civilisation, and its institutions, civil and religious, are similar to our own. It supplies very superior labour and materials at a cheap rate, and the men are sober, industrious, and trustworthy. Two of the directors are, perhaps, the most able and enterprising men in Sweden, whose interest it is to secure the largest success possible.

The report sums up thus as to the prospects of profits:—"1. From the antiquity of the mines and large extent of excavations made by the ancients, implying that they were profitably worked during an extended period.—2. The aimost entire absence of water in the various workings.—3. The large quantity of surface water which exists for driving all kinds of machinery.—4. The cheapness and quality of labour obtainable.—5. The cheapness and quality of labour obtainable.—5. The cheapness and an sufficient management highly satisfactory profits will be secured."

Th

mmediate applications are necessary, as it is not intended to keep the share list ppre than three weeks or a month.

THE WEST MERLLYN MINING COMPANY (LIMITED),
FLINTSHIRE, NORTH WALES.
Capital £3000. In shares of £5 each.
BANKERS—The National Provincial Bank of England (Holywell Branch).
SECRETARY—Mr. E. J. Davies, Holywell.
The capital is divided into 500 shares of £5 each. £2 10s, per share, to be paid to the bankers previous to tile application for the shares, and the residue as required, not ex-

bankers previous to the application for the shares, and the residue as required, not exceeding 10s, per share per month.

The company have been established for getting, raising, and vending, by themselves or by their sub-lessess, or agents, the lead ore under 12s acres of land, in the parish of Whitford, in the county of Flint, by virtue of a lease granted by the Marquis of West-minuter, for a term of twenty-one years from the 15th November, 1860, at the royalty of 90s, nor the county of the county of

are distant about three miles from Holywell, and are called the West Mer

The mines are distant about three miles from Holywell, and are called the West Merliyn Mines.

Attached to the mines are an office and store-room recently erected, and a smith and carpenters' shop, and there are on the premises, tools and implements for prosecuting the works. The leave, buildings, and plant, have been purchased for £600, £300 of which only will have to be paid, as the vendors have agreed to take the other £300 in paid-up shares, so that, with that exception, the whole subscribed capital will be employed in forming the company and developing the mines.

The sett is supposed to contain the Orsedd, the Tymaen, and the Lloc, the Merilyn, and the two Holloway lodes, some of which have been partially worked, and proved very successful; and there is every reason to believe that large quantities of lead may be obtained at a very moderate outlay by economical and skilful management.

From the Holloway and parallel lodes, at a depth of twenty-five yards from the surface, about 10 tone of lead were sold on the ticketing-day at Holywell, on the 8th of August, 1861, at £12 10s. 6d. per ton. At this sale, 376 tons of lead were disposed of, and that from the West Merilyn Mine fetched a higher price than any of the rest, except a small lot of 3 tons.

Each shareholder can in no event become liable beyond the amount of his shares.

At of 3 tons. older can in no event become liable beyond the amount of his shares for shares may be made in the form annexed, addressed to the secre Application for shares may be made in the form anne: Mr. E. J. DAVIES, Flintshire Observer office, Holywell.

THE WEST MERELYN MINING COMPANY (LIMITED).
Capital £3000. Shares, £5 each,
GENTLEMEN,—I request you will allot to me abares of £5 each, of the West Merlyn Mining Company (Limited), on the terms of the annexed prospectus, and I hereby
gree to accept the same, or any less number that you may allot to me, and to pay the
alls thereon. I have paid your bankers £ deposit thereon, for which I send you

t Merilyn Mining Company (Limited).

NATIONAL PROVINCIAL BANK OF ENGLAND (HOLY WELL BRANCH).

Received of , the sum of £ , on account of the West Merliyn Mining

vot of votinited).

For the National Provincial Bank of England (Holywell Branch),

Now ready, price is.,

THE PROGRESS OF MINING IN 1860,

BEING THE SEVENTEENTH ANNUAL REVIEW.

BY J. Y. WATSON, F. (8., Author of the Compendium of British Mining (published in 1843), Gleanings among Mines and Minera, &c.

The Sixteenth Annual Review or Mississ Procases appeared in the Mining Journal of December 31, 1859, and January 7, 1869.

A FEW COPIES of the REVIEW OF 1855, containing Statistics of the Media Trade, the Dividends and Percentage Paid by British and Foreign Mining Companies, and the State and Prospects of upwards of 200 Mines. Also a FEW COPIES of the REVIEW OF 1853, and 1864, MAY BE HAD on application at Messrs. Watses and Oughl's Mining offices, 1, 84. Michael's-aliey, Cornhill, Loncon.

Also, STATISTICS OF THE MINING INTEREST. By W. H. CUELL.

WATSON AND CUELL'S MINING CIRCULAR, published every Thursday morning, price 6d. or £1 is. per annum, contains special Reports of Mines, and the Latest Intelligence from the Mining Districts, from an xclusive resident agent; also, Special Recommendations and Advice upon all subjects connected with Mining, and interesting to investors and speculators. A Record of Daily Transactions in the Share Market, Metal Sales, and General Share Lists, &c. Edited by J. Y. WATSON F.G.S., and published by WATSON SHORE, M. Michael's-asley, Cornhill. N.B. Messirs, WATSON and CUELL have made a selection of a few dividend and progressive mines, which they have reason to boileve will pay good interest, with a probability, also, of a rise in value, the names and particulars of which will be furnished on application.

NVESTMENTS IN BRITISH MINES.—
Mr. MURCHISON'S REVIEW OF BRITISH MINING for the QUARTER
ENDING 30TH MARCH, 1861, with Particulars of the Principal Dividend and Progreasive Mines, Table of the Dividends Paid in the last Five Years, &c., is NOW READY.
Price One Shilling. At 117, Bishopsgate-street Within, London, E.C.
Reliable information and advice will at any time be given on application.
Also, COPIES of "BRITISH MINES CONSIDERED AS AN INVESTMENT." By
J.H. Monenison, Eq., F.G.S., F.S.S. Pp. 356, boards, price 3s. 6d., by post 4s. See
advertisement in another column.

Just published, price 6d., by post 7d.,

OLLIERY EXPLOSIONS, AND A MEANS TO
PREVENT THEM.
BY RICHARD HUGH HUGHES.
A pamphlet replete with highly interesting historical narrative, and thoroughly business-like remarks, bearing upon colliery explosions and colliery ventilation.—Mining Journal.

London: F. Plummer, printer, 21, Great New-street, E.C.; and the Author, Atla Safety Gas-Fitting Works, Hatton Garden.

Motices to Correspondents.

Much inconvenience having arisen, in consequence of several of the Numbers during the past year being out of print, we recommend that the Journal should be regularly filed on receipt: it then forms an accumulating useful work of reference.

QUESTIONS .- 1. The mode of operation adopted at Port Phillip to crush gold quartz, and

extract the gold after crushing? How is the amalgamating done?

2. When they crush, or half yield, do they also perform the amalgamation, or do each party dress their own crushings?

3. What is the plan adopted at the Clogau Mine, Dolgelly, said to be cheap and

What is the Long Tom and quicksiiver cradle, said to do 20 loads per day?
Which is the simplest plan of a furnace for calcining quartz?

5. Which is the simplest plan of a furnace for calcining quartz? We forwarded the foregoing communication to Mr. Evan Hopkins, and appended are the replies with which he has favoured us:—
LETALES.—1. The quartz is first calcined in klins, tomake it friable. It is then crushed under stamps, and when bruised sufficiently fine is carried therefrom by a running stream of water over blankets, on inclined planes. The free gold is retained by the latter, and is liberated therefrom by dipping the charged blankets in tubs of water, &c. The use of quicksliver is confined to a small product, obtained from the refuse. At Marmato, Purima, and other gold mines, the whole of the gold is extracted by crushing and washing, without the aid of any amalgamation, even in treating the refuse. The total cost per ton varies from 5s. to 10s., according to the situation, prices of materials, &c.
2. At Clanes the read is a extracted by the Deat Pablic Const.

reuse. The total cost per ton varies from 5s. to 10s., according to the situation, prices of materials, &c.

2. At Clunes, the gold is extracted by the Port Phillip Company, and the product divided—half for the mining company, and half for the reducing company.

3. Nothing regular established as yot but braising rich specimens and washing out the gold in pans, &c. If large quantities of paying quartz be discovered, stamping mills will be erected.

4. Long Toms, &c., are mere washing troughs, employed to extract gold from alluvial, not adapted for very fine gold obtained by stamping.

5. Common kilns (time kilns) serve the purpose of roasting quartz. However, roasting the quartz is seldom done; it is not done in any of the gold mines in South America. Often introduced by way of experiment, but no perceptible advantage derived therefrom. It is said they derive benefit by first roasting in Australia. Some kinds of quartz may require roasting.

The simplest and most economical and effective is the mode of extraction adopted at Marmato. None of the late inventions have been found worthy of notice.

TH WALES SLATE QUARRIES.—I have been much pleased with the letters on slat fourn't Wales Slate Quarkes.—I have been much pleased with the letters on slate quarries, by "Cymro," and am much disappointed at not seeing one in your last week's Journal. I hope he will continue them, as they contain the most valuable information that I have ever seen in print in connection with slate quarries. Whoever "Cymro" is, he is evidently well acquainted with the subject, and has very correctly described some of the most important quarries in North Wales. I know most of them well, and from some of his observations I think I know the man. Be that as it may, I hope he will continue his letters, as there is a considerable district which at present he has not named; and when he has completed his letters I would propose that they be published in a small volume; I would then enter my name as a subscriber for a number of copies, as they would be very valuable to all connected with quarries. I can assure yout there is considerable enquiry going on in Wales as to who the author is, and I think he has no reason for keeping his name from publicity.—A North Wales Slate Quarker Proprietors.

IR,—I shall feel obliged if any of your correspondents can inform me where I can fin a market for wolfram and tungstate of soda, and what is the market value per ton of each article?—A Subscriber: Calstock.

each article?—A Subscriber: Calstock.

Improvements in Minno Machinery.—As the subject of a more rapid and economic development of mines is absorbing a considerable amount of attention at the present time, may I be permitted to enquire through the Journal for some details with respect to MM. Grattoni and Sommelier's invention, which, according to the French newspapers, is producing such extraordinary results in excavating the tunnel through Mount Cenis. I read in the Patric that at the commencement of this great enterprise only the pickaxe and blast were employed, but since the invention above referred to was brought into use the cutting of the rock has been carried on with remarkable celerity. The machines, which are worked by compressed air, are very ingenious. They are each of 250-horse power, and act simultaneously on both sides of the mountain. They set in motion different instruments of great power, which operate in any direction that may be required. The section of the tunnel is about 60 metres, and when the cutting was commenced only 12 men could from the limited space be occupied at each end, the work they did being only 40 centimetres (about 16 inches) per day. But the machines employ a force equal to 2500 men, cutting out daily 2 metres—that is, 1 metre at each end. When the excavation is further proceeded with, it is proposed to employ the electric light, so that the men attending the machines may discharge their duties the more efficiently. If any of your readers can afford information upon this subject it would be gladly received.—L.: North Wates.

Lasses Mines.—"J. L. V." should apply to a solicitor.

LEASING MINES .- "J. L. V." should apply to a solicitor.

In-Plant Works in France.—Any correspondent would greatly oblige by forwarding a list of the tin-plates works in France; the information would, doubtless, be it teresting to many in this country who may wish to communicate with them.—P. I

teresting to many in this country who may wish to communicate with them.—P. E. SOUTH DEVOK MINING COMPANY.—I can confirm, from personal observation, the remarks of your last week's correspondent, as to the small amount of work going on at the Atias Mine. His fears of a collapse, if something is not done to introduce a better order of things into the company, are shared in by others beside himself. The Atias Mine represents the entire working of the company, as nothing whatever is being done either at the Phonix or at the Heroules Mines. We shall open our eyes when too late, I fear, to the menagement of this company, and shall have reason to regret continuing the unproductive staff, unnecessarily and enormously expensive, taking into consideration the small operations of the company. What the end will be, with other well-known unsuccessful mining adventures present to the mind, I cannot foresee, and fear to contemplate; or how our long-expected and much-wanted smelting furnaces are to be erected. Will the management tell us, through you, whether the accounts have been made up for the past twelve months, and, if so, when they will be presented to the shareholders, and the quasis annual meeting held, now two months overduc? I find no fault with the prospects of the Atias Mine, but with its management. Conscientions economy is absolutely necessary, or the shareholders will never reap the benefit of their investment.—A Sharkholders.

ATERNY MEYALLIC SAFETY-FUSE.—We believe that in every case where this has been

PATENT METALLIC SAFETY-FUSE.- We believe that in every case where this h

used it has perfectly succeeded.

GREAT WHEAL MARTHA.—I wish to ventilate a matter concerning this mine, which think the shareholders ought to take cognizance of. Upwards of a month ago I a certificate for fifty shares to the secretary for registration, and after waiting a w I wro e to ask why my letter had not been acknowledged? To this I received a reto the effect that the certificate would be sent as soon as the directors met. W I wroe to ask why my letter and not been acknowledged. To this received a rice to the effect that the certificate would be sent as soon as the directors met. We Sir, I waited another fortnight, and having received no certificate, I again wrote the secretary, and after the lapse of another week I have this morning received to following reply:—"I will forward you a certificate of your fifty Great Marthas, am sorry you have had so much trouble about the matter, but I cannot always fit directors when I want them." Now, Sir, I wish you to observe that, though the transfer was sent upwards of a month since, I am only now promised a certificate, and the plea is that the secretary cannot always find directors when he wants them. Veril if this be the fact, and that our paid directors cannot be got together once a month transact the business for which they receive remuneration, the sooner steps are take to relieve them of their unfaifiled duties the better. In my opinion, the secreta ought to acknowledge the receipt of every transfer by return of post, and the directo ought to meet, at least, once a fortnight to sign certificates. Why are they paid, not to fulfil these and other duties?—A Great Martha Shahrendeden.

not to fulfil these and other duties?—A GREAT MARTHA SHARRHOLDER.

THE HAVOD WARD SLATE AND SLAB QUARRY.—Permit me to correct some of the remarks of "Cymro" on this quarry, in your valuable Journal of Aug. 17, under the title of "North Wales Slate Quarries." Your correspondent's assertion, that the material procured out of this quarry "will not split into slates," is contrary to fact. Slates as well as slabs are produced out of it, and many thousands have been sold, and there are houses in the neighbourhood which have been rooted with them; therefore, the reports of the two practical agents from the Penrhyn and Dinorwic (Lianberris) Quarries alluded to are no exaggerations, and contain nothing contrary to "common sense and honesty." It is called by them a slate quarry on the same ground as that on which your correspondent admits it to be a slate quarry,—because it yields slate, and because it does split into slates. Several other practical slate quarry agents have subsequently examined this quarry, who all concur in everything put forth in Mr. Griffith and Mr. Parry's reports. Nor does Mr. Hughes (Crainant) state in his report it will not split into slates. In face of all this, is there not something very prepos-

terous in your corresponent's allusion to "granite" and "marble?" And it is quite apparent he writes from defective information, which, considering his ability as a writer, and the mediatorial position he has taken, it is very important he should avoid, To this, and not to any sinister motive, I attribute the missiatement.—John Houns

(the Proprietor).

**MacTical Coal Mining.—In the Journal of Aug. 31, Mr. Goodwin gives his rules as to "the breakage line, or line to where the subsidence of the surface extends," and in the case of the coal lying at an angle of 10°, he gives the breakage line at an angle of 98° to 100° from the angle of functionation, or rise and dip of the mine. And, again, for mines at an angle of 40°, he gives the breakage line at an angle of 70° to 75°. Now, it is not quite clear which way he means the angle of breakage from the inclination of the strata. You will readily perclave that there is a great difference between the angle counting from ten in the dip, and that counting from ten in the rise. Perhapa Mr. Goodwin will clear up the matter in some future communication.—S.T.W.M.: London, 89pt. 6.

London, Scpt. 6.

Casara Mining Company.—Can any of your correspondents give me any particulars of the late meetings of the Casara Mining Company (Limited)? Fully a year and a hajf has elapsed since the affair came out with colours flying, and a flourish of trumpets heralding forth a division of profits equal to at least 10 per cent., and that in six months time; and verily the reports issued periodically by the directors did show that the anticipated profit was made, but alsa! where is it now? Not into the shareholders pockets, at all events. I would not have been so much surprised at a dividend not being forthcoming just so soon as promised, as we foolish mortals are generally too sanguins in the affairs of this life, and especially so in mining, but great was my surprise to see one week in the Journal a resolution to lay before a general meeting a proposal to wind-up the company's affairs, and the following week that the proposal had been adopted. What can it all mean? The mine, according to reports, seems productive: and what, then, is the cause of such a movement? Can any better-informed shareholder any? I would also ask whether the promoters absorbed 7000%, of the paid-up capital for the mine or not, as I know the prospectus distinctly stated the one molety was to be in cash the other in shares?—A Shareholder.

Casa the Other is shares r—a. Sharksholder.

HE SLATE MOUNTAIN SLATE COMPANY.—I think that it would, in a great measure, is. cilitate the progress of this company with the investing public if the directors will state what premium is to be paid for the lease under which the property is proposed to be worked. This, I think, is the more necessary, as the capital is stated at 30,0001, while they consider that 10,0001. will be sufficient to work the quarry to a profit.—R.

while they consider that 10,000l. will be sufficient to work the quarry to a profit.—R. CHICCETH COMPANY.—In reply to your correspondents on this matter, we have ourselves investigated the company's books and accounts, and found everything highly satisfactory, and in first-rate order. Nearly the whole capital is subscribed, and the company have plenty of money. The works are now commenced, and are being pushed on vigorously. The best opinions that could be got, Evan Evans, William Williams, and a few other men who formerly worked in the quarry, all agree that there is plenty of slate, and the deeper they go the better it will get; and we are in a position to assure you positively that there is no reason of any kind for a shareholder, or shareholder, to be either alarmed or annoyed. We have suggested to the board that when the works are more advanced they should call in another opinion, and publish the report, which, doubtless, they will do. We have troubled you with this letter, thinking you may feel disposed to embody some of our remarks in a notice of your own, as we have several clients who hold shares in the undertaking.—P.S. Two of the largest shareholders joined the board about a month since.—Ross, Lainson, And Bedford: 4, Lothbury, London, Sept. 6.

West Tolvadder.—In the Journal of Aug. 24 it was stated that the balance (4541, 10s. 5d.)

oury, London, sept. 0.

Yest ToLvAdden.—In the Journal of Aug. 24 it was stated that the balance (4541.10s.5d.)

of assets over liabilities was against the adventurers, but it should have been in favour

of the company.—J. H. Dingle, purser: Lostwithiel, Aug. 29.

Now ready, price 6s., or 78 postage stamps, Mr. Thomas Tapping on the Colliery and Ore-Mine Inspection and Truck Acts. The work can be had from the *Mining Journal* office, 26, Fleet-street.

THE MINING JOURNAL

Bailway and Commercial Gazette.

LONDON, SEPTEMBER 7, 1861.

APPLICATION OF EXCAVATING MACHINERY TO MINING.

Among the virtues, that which has been most largely and continuously exercised by mining is without doubt the virtue of patience. And if the substitution of scientific methods of operation-abridging labour and the expenditure, but not the supply of capital and time-can only be enjoyed by the elimination one after another of the moral attributes of our nature,

even those which present to us the least attraction, it were to be desired that every man should continue to dig and delve for himself, and every woman to spin and weave for herself, until the "crack of doom."

But it will be universally admitted, at least by all who have been drawn into the charmed circle of mining adventure, that this time-honoured pursuit, with all its hoary methods, has drawn more needlessly upon this cardinal virtue of the miner than any other among the industries of restless and busy men, that its healthy exercise may be perfectly compatible with

dinal virtue of the miner than any other among the industries of restless and busy men, that its healthy exercise may be perfectly compatible with a less tardy and more economical and satisfactory system than that which at present prevails; and that under a better regime the attribute in question would run infinitely less risk of degenerating into stolidity.

Ten years ago a palace of crystal, exquisite in all its proportions, and covering 25 acres of ground, rose as by enchantment in Hyde Park in a period of twelve months—it disappeared like an exhalation, and rose again within a few months in yet nobler proportions, and with more graceful lines, from the summit of one of the green slopes of Sydenham; but how many fathoms in the same period of time did that devoted corps of miners sink through that hard elvan course, or drive through that tough granite, every inch of which cost the shareholders a pound of English currency to win? The largest vessel that ever "walked the waters" was planned and laid down, was launched and bestrode the Atlantic, in less time than was occupied by East Caradon, a comparatively shallow mine, in reaching its occupied by East Caradon, a comparatively shallow mine, in reaching its first deposit of ore. And that same ore had passed the crucible and become current on the Yang tse Kiang, with the imprimatur of his Celestial Majesty, in less time than elapsed between the striking the ore and paying the first half-crown to the grateful shareholders. If such anomalies ing the first half-crown to the grateful shareholders. If such anomales are remediable, why should they any longer be tolerated? We present the remedy—machinery versus human bone, muscle, and sinew, in the miner's march through the rock; and in advocating this we advocate the miner's truest interest. We have sat side by side with him, the toughend of a tedious drift being vis-a-vis to us, or have stood in the midst of a perplexing slide, and have listened with admiration to his forceful reasoning of the week-philities that lay before up the effect of which has been to perplexing slide, and have listened with admiration to his forceful reasonings on the probabilities that lay before us, the effect of which has been to leave an impression on our mind as indelible as his auger on the rock, that the less valuable quality of the Cornish miner, great as that is, was his brawny muscle, and that in the hands of such a man "a dead iron devil," to use the quaint patronymic of Thomas Carlyle, would be a pleasure, because its advances would be in some reasonable ratio with his impatient instincts; whereas they are held in cruel check by the dull and monotonous resonance of the hammer and cold chisel.

All experience proves that improvements in methods of manipulation

monotonous resonance of the hammer and cold chisel.

All experience proves that improvements in methods of manipulation by which the brute force of the human system is economised, and the productiveness of valuable commodities enhanced, travel pari passu with the social elevation of men. Let not the working miner, then, imagine that machinery will or can rob him of his occupation. It will, on the contarty, give a new impulse to his mind a new stimulus to his exertions. The chances of success will be augmented tenfold; and with greater results the demand for his labour and skill will advance in a corresponding degree—and demand is synonymous with a premium upon his labour, now often at a lamentable discount. amentable discount.

But what will be the effect of increased productiveness upon the copper larket? At present the producing power of Cornwall is diminishing ramarket? At present the producing power of Cornwall is diminishing ra-pidly, though its poor ores are needed by the smelter to average the feel of his furnaces. The first effect will be to bring up the Cornish producof his furnaces. The first effect will be to oring up the Counts' tion to something like a parity with the foreign districts, and ultimately to cheapen copper in the markets of the world. This will not be to the detriment of the miner or of the mining adventurer, because the cost of producing will be diminished, and bear a more reasonable relation to the results. The cheapening of the commodity will bring it into increased constitutions made of mining sumption, and thus a more economical and expeditious mode of mining carries with it no insignifice at reward—a remuneration for capital, and a premium upon the miner's labour and ingenuity.

Great Britain, next to the favour of Divine Providence, owes half her

greatness to her mining resources; they form the foundation of he factures, and her manufactures, in their present collossal propor factures, and her manufactures, in their present collossal proportions, are only another name for her greatness and wealth. Nothing, therefore, which can give a new motive -power to her mineral industries in any department is unworthy of attention. Is it capital she lacks?—No. A conviction prevails that it is only necessary to show a reasonable probability of moderate profits to secure the application of any desiderated amount. Contemplate the cool resolution with which a man will commence the sinking of a shaft to win a seam of coal at 500 fathoms from the surface, involving it may be an outlay its shafts, machinery, and drifts of 150,000k. ing of a shaft to win a seam of coal at 500 fathoms from the surface, involving it may be an outlay its shafts, machinery, and drifts of 150,000, before one farthing in the shape of profits can possibly return to his pocker. Does this look like a want of either capital or enterprise? It is not, then, to be doubted that capital will be forthcoming to adopt an invention so

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fraught with important advantages as that which the application of ma-chinery for excavating the rock offers to the capitalist, and by which the occupation of the Cornish miner will be assimilated somewhat to the in-dustries of the thousand hives which enrich these islands, and make our country at once the admiration and envy of the Continent and the world.

LOSS OF LIFE AMONGST CORNISH MINERS-No. IX.

Next after bad ventilation, that which causes most distress, and probably most injury, to Cornish miners is the necessity of climbing long ladders-It is not easy to convey to those who have not experienced it an adequate idea of the distressing toil of climbing from a deep mine. Some mines are 300 fathoms deep, and even more. St. Paul's is 340 feet, or not 57 fms. high; a miner has, therefore, to climb more than five time as high as St. Paul's to raise himself from the bottom of one of the deepest mines to the surface, but the labour he undergoes is more severe than that would be, for he has not easy, well ventilated, and lighted staircases by which to mount, but steep, almost vertical, ladders, in close, hot shafts, and must begin his toilsome ascent, after the fatigue of a hard day's work, in poor air, loaded with impurities, and of a tropical heat. No wonder, then, he often reaches grass pale and exhausted, sometimes so completely as to be wholly unable for some time to speak. If the men are so thoughtless, as young miners often are, as to mount the ladders very quickly, the action of the heart is excessively excited, its pulsations are increased to double the natural rate, and not unfrequently spitting of blood is occasioned. When he is recollected that this excessive toil is imposed upon men, many of whom are suffering from a more or less advanced stage of miners' consumption, it will be readily believed that the men are most anxious to be spared the It is not easy to convey to those who have not experienced it an adequate

re suffering from a more or less advanced stage of miners' consumption, it will be readily believed that the men are most anxious to be spared the necessity of climbing.

Notwithstanding strenuous efforts to remedy the evil, but little has yet been done. Man-engines to raise and lower miners have been erected for four mines only, in all the rest the old system is continued. When the Royal Polytechnic Society of Cornwall was first established, in 1834, attention was from the very first directed to this subject. Mr. S. C Fox offered premiums for improvements in the method of ascending and descending mines, and for several years the society afforded constant and substantial assistance towards getting machinery to raise miners introduced, and in 1842 contributed 5002, towards the cost of a man-engine for the Tresavean Mine, which was estimated to cost 16702, for 280 fathoms. In 1845 another engine was erected at the United Mines, for about 20002, and in 1851 one was put down at the Fowey Consols Mines 280 fms. deep.

These engines are modifications of machines previously in use in Germany. The first was erected in 1833, at Zellerfield, and was made entirely of wood. The second was like it, and erected at the George Wilhelm Mine. The third was for the Zellerfield Mine, in substitution for the first, and was made of iron and wood; and the fourth was made of iron and wood; and the fourth was made of iron and wood; and the fourth was made of iron and wood; and the fourth was made of iron and wood; and the fourth was made of iron and wood; and the fourth was made of iron and wood; and the fourth was made of iron and wood; and the fourth was made of iron and wood; and the fourth was made of iron and wood; and the fourth was made of iron and wood; and the fourth was made of iron and wood; and the fourth was made of iron and wood; and the fourth was made of iron and wood; and the fourth was made of iron and wood; and the fourth was made of iron and wood; and the fourth was made of iron and wood; and the fourth was made of

heim Mine. The third was for the Zenterheit Aline, in substitution for the first, and was made of iron and wood; and the fourth was made of iron wire at Andreasbourg. We have no recent reports of the working of these machines abroad, but by the latest received the miners spoke of it with animated gratitude towards its originators. The operation of the English man-engines is very satisfactory, and so long as a large number of men are employed, very profitable; but the fact that, notwithstanding this success four man-engines only are in use proves that something else is

animated grainted towards its offiguators. The operation of the largism man-engines is very satisfactory, and so long as a large number of men are employed, very profitable; but the fact that, notwithstanding this success, four man-engines only are in use proves that something else is wanted. It is easy to see that the uncertainty of mining is the great impediment to the introduction of machinery of such expensive character. If the continued profitable employment of a large number of men could be securely calculated upon, mine adventurers could prudently erect manengines whenever the annual saving in cost of labour exceeded the annual interest and cost of working the machines. But as lodes are very uncertain, and as it must always be doubtful how long a mine will be worked, or how many men can be profitably employed, no machine will be generally introduced which cannot either be cheaply constructed or removed from one mine to another without ruinous expense. This is a case in which the cost of first outlay of a machine will be a greater impediment to its use than the cost of working; indeed, it is hardly possible that any machine can be more costly to work than it is to employ human force so wastefully as in climbing ladders.

It was estimated by the Polytechnic Society that at least one-fifth part of the miner's effective force is consumed, not in working, but in getting to and from his work. The loss of time is very great; on an average, at least one hour per day is spent upon the ladders, and in very deep mines much more than this. But the toil of climbing is so severe that one hour of it is more than equal to two hours of ordinary work; if, therefore, miners could be saved from it, they could, without additional fatigue, and with much less injury to their health, do the work of five days in four days. Of this saving the adventurers would immediately receive their share, for both tributers and tutmen would offer better terms if their labour, by being spared, was rendered more effective. Assuming that men ear

the same number of men would do the same work, or the same number would do one-fourth more work, of course to the mutual profit of both employers and employed.

No doubt some power would be expended, and some coal consumed, to raise miners from the bottom of the shaft; but the cost of this is as nothing compared with the present waste. Say a miner weighs 150 lbs, and has to be raised 100 fathoms once a day, or 312 times a year, the whole year's power would be only about equal to 28,000,000 lbs, lifted 1 foot high, a weight which some of the best pumping-engines will lift by a consumption of a quarter of a bushel of coal. If the mere cost of power were the only difficulty, it would not be worth consideration were it many times as great. It is the first cost of the machine that is the real impediment, and, unless this can be reduced, or a removeable apparatus invented, the difficulty is formidable indeed. A similar difficulty has, however, been encountered and overcome in coal mining, and, though the cases are not identical, they are so similar that a modification of the same apparatus may probably suit both cases. To ascend from the deepest Cornish mine by ladders requires two hours of excessive toil; by man-engines about 20 minutes of little fatigue, but of constant attention and some risk. We ascended a coal mine shaft of equal depth in less than one minute, without any exertion or attention of our own, with no consciousness of motion or appearance of danger. It is true that but few men can ascend from a coal pit literally at once, but parties can follow each other so rapidly that with a little arrangement there need be little waiting; nay, it has been proposed to have a continuous chain, with cages attached at regular intervals, resembling a large Jacob's ladder, so that there may be a constant stream of men up and down the shaft at once, with no other interruption than for changing as each cage reaches the top or the bottom. If the cages are lifted up and let down between guide-rods, with proper brakes to st the by such accidents as cannot be avoided would really be much though it might apparently be more, from being more noticed, than is now caused by disease excited or aggravated by the toil of climbing ladders. The very small number of railway accidents in proportion to the number of travellers shows what care can do to render that really safe which

ppears to be, and without such care would be, exceedingly dangerous.

There seems no good reason why some such apparatus as is in successful operation in coal pits should not be tried in metal mines. There seems operation in coal pits should not be tried in metal mines. There seem no difficulties in its adaptation a clever machinist could not overcome. A common objection is that apparatus suitable for vertical coal shafts would not work in mine shafts which sometimes slope, but it would work in those which are vertical, and it would not be very difficult by guide-rods to conduct a cradle safely up shafts which are nearly vertical, though, perhaps, not at so high a speed as is common in coal pits, but a lower speed would be of little inconvenience if a continuous succession of cradles follow each other. The saving of time and toil is so great that almost any trouble and expense to accomplish the object would be amply repaid. This is so well understood by coal miners that anyone who proposed to substitute ladders for cages in collieries would be not unnaturally considered insane. Is it not nearly as foolish to continue the use of ladders in copper mines, after experience has proved the infinite superiority of machinery in coal mines? not nearly as foolish to continue the use of ladders in copper mines, after experience has proved the infinite superiority of machinery in coal mines? Is there any reason for not at least trying in one class of mines what has been found to answer in the other, except that what are called "practical men" always believe anything to be impracticable they have not themselves done, having no faith in anything beyond the range of their own very narrow experience. It is commonly said that what has been done can be done; but many of this class act as if they did not think so, and it is, we suspect, this feeling that has chiefly prevented a fair trial having been made of raising miners as colliers are raised. Partly it has arisen

REPORT ON CORNWALL AND DEVONSHIRE.

[FROM OUR CORRESPONDENT IN TRURO.]

Sept. 4.—In this dull season of the year, when little business is doing to divert men's attention, it is not surprising that Mr. Evan Hopkins's onslaught on Cornish Mining Management should have become a topic of

SEPT. 4.—In this dull season of the year, when little business is doing to divert men's attention, it is not surprising that Mr. Evan Hopkine's on-slaught on Cornish Mining Management should have become a topic of lively discussion. I can scarcely believe that Mr. Hopkine's early means all he says in his letter; but, although he may have expressed himself too hastily and unreservedly, I am too much accustomed to the enunciation of similar opinions to be much surprised at them. If frequently meet men who sweepingly condemn the whole system of Cornish mining and engineering, from the condensing-engine downwards, and who are always, like Mr. Hopkins, making unfavourable comparisons between it and the systems in use in the coal and iron districts. I have myself no belief whatever in these opinions. I think the Cornish system is as a whole, the best system of metallic mining pursued in any part of the world; although I am far from saying that it is by any means perfect, or incapable of improvement, or that there are not points on which Cornishmen may learn from other districts. At the same time, as the question is undoubtedly one of great importance, it seems to me that a temperate and practical discussion on it would be very useful; and, consequently, I shall make no apology for the following observations, which, it must be quite understood, I offer in the best spirit.

As it is at any time utterly useless to attempt to reason on any subject without premises, I shall start with stating a few facts—well-known facts, but still facts which I want your readers throroughly to bear in mind. When people institute a comparison between Cornish mines—tin mines, for instance—and collieries, they are very apt to forget that the marketable commodity in the case of the colliery is a raw material, tilted from the pit's mouth into the railway trucks; while in the case of the tin mine it is a manufactured article. The 10 or 20 tons of black tin figuring in the sale list may seem insignificant compared with the thousand or two tons depth from which the ores are raised, 300 fms., at Dolcoath; their great hardness, 20% or 30%. per fm. being given to drive the levels; the irregularity of richness in different parts of the lode, which is an evident impediment to economical working; surely, I say, the system of mining which can produce fine profits under such circumstances, with stuff so comparatively poor, cannot be so miserably had as it is represented to be. As the Dolcoath tin is worth more than 60%, per ton, the ore would consequently now be worth more than 24s. per ton. Let us put it at 30s. per ton: at this figure is a comparison with Morro Velho, raising stuff worth 36s. per ton from a depth of 144 fms., so very disadvantageous to Dolcoath, raising stuff of such a hardness from a depth of 300 fms., and giving such splendid profits? I certainly think not.

Let us take a few more illustrations from the Camborne and Illogan tin mines. At Dolcoath, a mine, let it be remembered, 300 fathoms deep

Let us take a few more illustrations from the Camborne and Illogan tin mines. At Dolcoath, a mine, let it be remembered, 300 fathoms deep from surface, the average cost of breaking, filling, and landing the stuff is 9s. per ton. This is rather heavy, but taking into consideration the depth of the mine and the hardness of the rock, requiring a price of 30l. per fathom to drive the lower levels, I think we may look a very long way before we find any place where, under similar circumstances, it is done cheaper. I have certainly never heard of any such.

At Carn Brea, the average cost of breaking and tramming the stuff, at an average depth of from 180 to 200 fathoms, is 5s. per ton. At this mine the cost of filling, drawing, and landing, including every item of expense, and allowing for wear and tear, is 1s. 3d. per ton, the particulars of which can be seen in the Journal of December 15 last. In another paper of the same month the size of the lode, and the cost of driving the different levels, is given, so that the hardness of the ground can also be seen. Allowing for these, I should like to be shown in what mine, in any part of the world, the same work is done for less money.

Allowing for these, I should like to be shown in what mine, in any part of the world, the same work is done for less money.

At Tincroft, the cost of breaking the stuff averages 4s. per ton; and at Cook's Kitchen, at a point 220 fathoms from surface, it is broken, trammed 80 or 90 fathoms, and filled, for 5s. per ton; out of which the men allow 6d. per ton for drawing. At some points in Tincroft, 200 fms. from surface, the tinstuff is broken (including tramming and filling) for 3s. 9d. per ton.

I think these figures show that Cornish miners, even in the richest and most prosperous district in the county, have no bed of roses—no great riches with which they can afford to play loosely and carelessly. I have seen mining in a good many districts, and under a good many phases, but instead of ever being struck with the inferiority of Cornish mining, compared with that of other districts, the contrary has always been the case, and I think must ever be the case with any candid enquirer. In many Cornish mines which are made to pay cost, and even give profits, the wonder often is how it can be managed, and I believe the more anyone knows of well-managed Cornish mines, the more he will appreciate the great thought and skill required in their working. Metallic mining differs

from the fear of accidents, which are, indeed, far too common in coal pits. Enquiry, however, shows that they are rare when proper and easily-observed precautions are duly attended to, and no doubt enquiry would prove that more lives are lost from diseases induced or increased by climbing ladders than by accidents from well-constructed eages. But the first kill solwly, and attract little notice; the latter shock the feelings, and are remarked. It is just a parallel case to that of fire-damp in coal pits. As we have already shown, that dreaded enemy to the collier indirectly saves more lives than it directly destroys, by compelling the ventilation of coal pits, which had it not been for fire-damp would, doubtless, have been as badly ventilated as copper mines are, and attended with the like loss of life from miners' consumption, the consequence of bad ventilation. But the excess of deaths from colliery accidents put together, of which only about one quarter are from fire-damp explosions. It follows, therefore, that that is apparently a source of excessive danger is really a cause of safety from a much greater though less evident peril, but that providential result against the drawback of evil. It is to this end we are gradually approached against the drawback of evil. It is to this end we are gradually approached against the drawback of evil. It is to this end we are gradually approached against the drawback of evil. It is to this end we are gradually approached to a consequence of the increasing attention brings, and of the improvements that that increasing attention brings, when may we hope for the like improvement in copper and tin mine management? Not until public attention can be as strongly called to the misery caused by the insidious progress of disease in metal mines, as it is capable of being—reduced to a perfect was the reduced to a perfect and absence of system in which things are carried on. Accustomed to the management of large concerns, where everything is—sit is capable of being—reduced to a perfe tails systematically, so important in any large concern; and he should also possess that quickness in initiative in striking out new lines of action—a gift essential to a good miner. One sometimes meet men possessing the administrative gift alone. Such men are frequently very able, and generally particularly strike a stranger with their ability, and the clearness and method of their arrangements; they are men who in a sphere suited to their peculiar abilities, as railway managers, for instance, or at the head of any other large concern requiring merely administrative ability, would be of great value; but wanting a quickness in initiative they fail as mine managers. I know some men of this class in Cornwall, men whose ability and character are beyond doubt, but still whose career has been a complete failure. The general failing of Cornishmen is, however, in the opposite direction. They possess all the element of successful miners in their quickness, but they want system. The result generally is, that when a person accustomed to the management of large concerns, where everything is—as it is capable of being—reduced to a perfect system, looks into the management of some Cornish mines, the first thing that strikes them is the comparative disorder and absence of system in which things are carried on. Accustomed to concerns where system is everything, they are most unfavourably impressed, and form a most unjustly injurious opinion of the management—which really is very good at the bottom, although conducted in rather an erratic manner—a manner, however, well understood by all parties concerned. It would be better, of course, if a more perfect administrative system could be generally introduced. In most of the large mines this is now the case—for the larger a concern gets the more necessity there is for it—and altogether things are much improving in this respect. I have laid considerable stress upon this point, for, from considerable the point of the poi

themselves are no more able to make a good mine manager than a perfect knowledge of the manual and platoon exercise would make a drill sergeant a great general.

As I have said before, I can scarcely believe that Mr. Hopkins seriously means what he has written about Cornish mine management. He must know better than I or anyone else can tell him the unfairness of the comparing a colliery pit with a shaft in a metallic mine. While the latter is sunk for exploration, and may never lead to anything—in a great majority of cases never does lead to anything worth having—the former is sunk for the purpose of laying open what has already been discovered by boring, or neighbouring workings. In the colliery, we know the exact depth at which the beds of coal will be intersected, their thickness, and dip; the approximate quantity of coal they will produce, and the number of years it will take to raise it. In a metallic mine, we do not in the first place know whether we will get any ore at all; or, if we do get it, whether it will be 10 fms. or 300 fms. deep under the shaft we are now sinking, or \(\frac{1}{2} \) mile off. All is uncertainty; and when we do get a course of ore none can tell how long it will last, or how far it will justify large expenses. To remedy the faults which are found with Cornish shafts, and the comparatively imperfect systems of drawing stuff which they entail, it would be necessary to sink every trial shaft as if a great mine were assuredly at the bottom of it. Such a notion is, of course, ridiculous; but it may be said that when a rich mine is found new shafts should be sunk, or old ones cut down, so as to get shafts equal to colliery pits. I answer that such is always done where the prospects of the mine justify it; but the expense of such things is so enormous, and the uncertainty attending all metalliferous mines is so great, that prudent managers—first-class men—are very careful about rashing into things of the kind. After all, mining is a business, and not a sentienormous, and the uncertainty attending all metalliferous mines is so great, that prudent managers—first-class men—are very careful about rushing into things of the kind. After all, mining is a business, and not a sentiment. The object is to raise ores to a profit, not to show what wonders engineering skill (carried out regardless of expense) is capable of performing. Railway proprietors have pretty well exhausted that sensation, and their experience is not enticing. There may be some of the original shareholders in the Cornwall Railway who feel a thrill of satisfaction at having contributed to erect such a noble specimen of engineering skill as the Albert Bridge, but I fear the majority would be common-place enough to prefer some interest for their money.

contributed to erect such a noble specimen of engineering skill as the Albert Bridge, but I fear the majority would be common-place enough to prefer some interest for their money.

I shall not be tempted into attempting a comparison between Cornish and North Country mining. It would be most unfair to my North Country friends, of whose good sense I have far too high an opinion, to suppose that they are at all inclined to set themselves up as better metallic miners than Cornishmen. I have never met any yet who had such a pretension. In in their own sphere of mining—coal and iron—no one doubts their preeminence; but metallic mining requires a totally different habit of mind, and is an essentially distinct pursuit.

Cornishmen are being continually attacked as obstinate, mulish, prejudiced, ignorant, &c., because they are not at once prepared to adopt every nostrum which any dreamer or schemer chooses to propose. I never could see this myself; and, on the contrary, think they are quite as ready as any other class—more ready than most other classes—to adopt all real improvements, and to try all plausible suggestions. I am glad to see that what is generally considered an improvement in tin dressing has been lately adopted at Providence Mines. St. Ives, by Capt. William Hollow, jun. It is the Prussian concave round buddle, which differs from the ordinary round buddle in falling inwards from the periphery towards the centre, instead of outwards. The stuff is distributed at the edge by revolving arms, the slime escaping at the centre, by which a much larger area is given for the concentration of the "heads." The present ouddle at Providence Mines is 20 feet in diameter, with a 2-feet opening in the centre for the escape of the waste. The fall of the floor, which is continuous from the edge to the centre opening, is 1½ in. per foot. Capt. Hollow gives a first-rate account of its action, as it makes twice as much heads as the ordinary round buddle, and equally good. It may be mentioned, that although this form of buddle i

REPORT FROM NORTHUMBERLAND AND DURHAM.

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SEPT. 5.—The Coal Trade continues, on the whole, to make satisfactory progress. On the Wear large quantities of coal have been shipped lately, and most of the works there are tolerably brisk. At the extensive works of the Earl of Durham, large stocks from the pits have been shipped, in addition to the regular workings from the mines. In the present depressed state of the markets this hardly appears to be a wise proceeding. The extension of those valuable works still goes on most viscously. A large quantity of the Hutton scan coal remains on the estate, which produces the best house coal. During the summer greafactivity has been the rule in the shipment of steam-coal from Northumberland also, but this activity has been at little interrupted lately by the want of shipping in the River Tyne, owing to contrary winds, and also by some slight strikes of the workmen at the Bebside and other collieries. The summer trade, on the whole, has been very good. As the winter approaches, large stocks of this description of coal are usually laid up for shipment in the spring and summer months. The Long Benton Colliery, near Newcastle, is offered to let from March next, the stock and materials to be taken at a valuation. The Low Main scam is moviked at this concern, the High Main scam being tabbed off asfely by metal tubbing. The fron Trade exhibits little improvement, and the absard strike of the pudders still continues, much to the injury of the trade, and also to their own injury in the end. It is plain that they would have best consulted their own interests by giving way to the proposed reduction of the masters at the present time, considering the very depressed state of the trade, and when a change occurred for the better, which it is hoped cannot be far off, there could be no difficulty in again recovering the reductions. The prospect for the Consett Irou-Works still continues gloomy in the extreme. Nothing reliable as to the result has as yet transpired, but it is feared that no fea SEPT. 5 .- The Coal Trade continues, on the whole, to make satisfactory

Resuming the subject we commenced last week—that of the Education of Working Miners—the first step is the elementary education of children previous to being employed in mines or factories; but if we presume that previous to being employed in mines or lactories; but if we presume that every one has received a reasonable amount of elementary education previous to commencing work, another great difficulty immediately presents itself. These boys are taken into an atmosphere where there is great danger of their very soon ioning all they have previously acquired. The case with them is very different from that of boys introduced into the shop or counting-house, where their knowledge is daily excressed and continually increased. The departments of manual labour about mines and unamufactories present few opportunities of acquiring or increasing book knowledge. It is, therefore, very desirable, in order to keep the learning acquired, that boys employed in mines,

me way instructed after the hours of lab neans of evening schools and the literary s once allowed or acquired, the youth so ur are over. only be effected by means of evening schools and the literary institute. If habits of iditing and roving are once allowed or acquired, the youth soon relapses into a state of iditing and roving are once allowed or acquired, the youth soon relapses into a state of ignorance and barbarism. It is quite common to meet with boys in mines who have learned to read at school, but who have entirely lost this accomplishment. It is no longer necessary that this should be the case—the hours of labour are not so long as formerly, nor is the labour itself near so exhausting. The introduction of ponies for the in-by baulage of coals has reduced the system of hand-putting to a minimum; and this was by far the most trikscene employment in mines, something, indeed, of a debasing or brutalising tendency was almost inseparable from it. Every boy employed in mines might devote at least two hours four nights per week to some kind of mental improvement. If this is not done, very much more time will be wasted in idleness, or something worse. The period, too, over which this is to be persevered with its compartively very short, as after they commence as coal hewers the hours of work are so short as to allow of ample time for the improvement of their minds. Young men generally begin the work of hewers at 17 or 18 years of age at present, so that the period of their apprenticeship may be considered as its years at the most. After this time their hours in the mine are limited to eight, so that they have ample time, as we have said before, to improve themselves. Looking at all these points, the raising of the working coilier to a respectable scale of intelligence and a moral status can hardly be considered as hopeless. Some system to be commenced with in early youth, and rigidly carried out until the workman has arrived at years of discretion and self-reliance, appears to be the great desideratum. That we are progressing towards this result cannot admit of doubt, but the progress is, as we have before remarked, much too slow. The recent Ac

REPORT FROM NORTH AND SOUTH STAFFORDSHIRE.

-There is nothing new to be stated in relation to the Iron SEPT. 5.—There is nothing new to be stated in relation to the Iron Trade. The somewhat better demand continues, and pig-iron is selling more freely. Several large sales are reported. In North Staffordshire the puddlers are out at a large number of the works in opposition to the reduction of 6d. per ton in their wages agreed upon by the masters. In one or two cases, however, the reduction has been submitted to. Trade in North Staffordshire has suffered severely from the almost entire stoppage of the commerce to the United States, which was the best customer for the consumption of earthenware, the staple trade of the district.

The Hardware Trades of Birmingham and South Staffordshire are still rather more active, the fine weather causing home orders to be given to a

on the commerce to the United States, which was the best customer for the consumption of earthenware, the staple trade of the district.

The Hardware Trades of Birmingham and South Staffordshire are still rather more active, the fine weather causing home orders to be given to a greater extent. It would be a great mistake, however, to suppose that these branches of trade are active, and they hardly can be so whilst America remains so unsettled. The failure of Mr. Alexander Thos. Gordon, railway contractor, of Westminster, is likely to affect some parties in this district. He was a short time ago a purchaser of pig-iron, and several persons in South Staffordshire will lose by him.

The prospectus of the Victoria Silver, Lead, and Zinc Company (Limited) is published, and as it has a local character—the secretary and another director residing in this county—it may not be inappropriately noticed here. The company is to be formed for the purpose of working a mining estate at Stoliberget, about five miles northwest of the town of Smedgebacken, Dalecarila, Sweden. The minerals on the estate are silver, lead, sinc, and sulphur, the latter in the form of pyrites. The proposed capital is 30,000t., in 10t. shares. The estate has been surveyed by Mr. John Darlington, 26, Gresham-street, London, who was recommended by Mr. Robert Hunt for the purpose. His report is most favourable. He states that the mines were formerly worked for the Crown, the working being suspended by the wars of Gustavus. The mineral deposits are described as occurring "in a wide metalliferous channel, and not in lodes or voins, as in this country." They are very extensive, the metalliferous channel, and not in lodes or voins, as in this country." They are very extensive, the metalliferous channel, and not in lodes or voins, as in this country." They are very extensive, the metalliferous channel, and not in lodes or voins, as in this country." They are very extensive, the metalliferous channel, and not in lodes or voins, as in this country." They are ver

sat this is a concern which, with ample capital and good management, cannot ran or roving most profitable.

The annual meeting of the Wolverhampton School of Art was held on Monday. The annual meeting of the Wolverhampton School of Art was held on Monday. The ran to diberality which has been manifested towards this institution is remarkable. Yolverhampton is largely engaged in trades in which symmetry, beauty, and, it may a added, rariety of form and colour are most important elements; and every merchant of the state of the sends out his travellers is most anxious to give them patterns which are the sends out his travellers is most anxious to give them patterns which are the sends out his travellers is most anxious to give them patterns which are the sends of th

REPORT FROM YORKSHIRE, DERBYSHIRE, AND LANCASHIRE

SEPT. 5.—Throughout the week the reports of the present position and future prospects of the Iron Trade have been of a more confident and encouraging character. The orders which are being given out afford ample indications that the trade is improving, and that when the autumn demand sets in it will be more active. The harvest operations throughout the country have been nearly completed, and the yield of grain is, on the whole, much more fruithful than for several years past. The trade with America is nearly a blank, but the loss of the American trade has been felt less seriously on account of the increase in the exports of all descriptions of iron to the colonies generally. The Cutiery and Steel Trades have most keenly felt the effects of the American crisis. The pig-iron trade is dull, and rates are unsteady.

The Coal Trade is on the improve, but this may now be expected, in consequence of the

trade is dull, and rates are unsteady.

The Coal Trade is on the improve, but this may now be expected, in consequence of the demand for autumn. The great enquiry is for the hard descriptions for locomotive and marine purposes; though the production has been greatly increased, especially in Derbyshire, the demand is fully equal to it. The opening of the line of railway into the South Wales coal field it was thought would seriously affect the interest of the Derbyshire coalmasters, but from what we can learn the danger has not shown itself in such a palpable form as to be noticed.

Railway accidents bid fair to outvie those connected with mining, but it is to be hoped that for the future more effective steps will be taken to make the means of signalling more perfect and secure. The Midiand, Manchester, Sheffield, and Lincolnshire, Great

and other companies, have taken warning by these fearful catastrophes, aking great efforts to test the whole of the signals on their lines, and w

The subscriptions in aid of the sufferers by the late accident at Clay The subscriptions in aid of the suiferers by the late account as has Cross continue to flow in, and although as yet no personal canvass has been made, it is anticipated that about 3000% will be raised by voluntary contact that about 3000% whose lodges exist in large numbers in lilery districts, are commencing a voluntary subscription, confined to their own It would be well if other benefit societies were to follow this example of the Odd s. The organisation which exists in these societies would render it easy to make ough canvass, and little doubt exists but that a good sum would be realised.

a thorough canvais, and little doubt exists but that a good sum would be realised.

Early in August last a blower of gas was fired in the East Gawber Colliery, which caused an explosion, and the death of the manager and an underviewer was the result. The fire in the colliery increased, and it was found necessary to seal up the pit, which was done under the directions of Mr. Charles Morton, the Government Inspector of Mines, and Mr. Brown and Mr. Booth, colliery engineers. Under the impression that the exclusion of the air had been accomplished, the pit was allowed to remain sealed for several weeks, and on Wednesday an attempt was made to re-open it, but no sconer had the mouth of the shaft been opened than several explosions occurred, followed by the issuing of a dense smoke from the cupols, which convinced everybody that the fire was still raging, and ultimately the pit was re-closed, and it is very uncertain when it will be re-opened. The closing of the pit will be a great loss to Mr. Craik and his partners, and a large number of persons have been thrown out of employment.

convinced everybody that are at a wind in the contractor of the cleaning or any product and it is very uncertain when it will be re-opened. The cleaning or any product and it is very uncertain when it will be re-opened. The cleaning or the shaft upon the North Derbyshire Lead Mine, at Calver Sough, and the directors. The contractor has been claiming for less of time by detention and otherwise, and has succeeded in making up a bill for a good round sum. The directors have repudiated it, and they called a meeting of the shareholders at Sheffield on Thesday, and invited the contractor to attend, but he did not put in an appearance; consequently, the matter was discussed in his absence, and the solicitor to the company (Mr. Wake) advised the meeting that the shareholders were not liable for the claim. We have been informed that the contractor's son has recommenced the work of sinking, but the claim remains in slatu quo.

The new Midland Mine, at Ashover, is not being worked at present, and the prospects of the Mill Town Mine are not very hopeful just now. The Mill Dam Mine is looking well, and the men are getting a tolerable quantity of ore. Several mines in the Peak of Derbyshire, which were started some eighteen months ago, are only dragging their slow length slong, if such a term may be used in reference to mining. The excitement on their establishment has gone, and now the merits of each have been, or are being, tested, but anyly in a small way. Many a promising undertaking has been abandoned as hopeless owing to the "tinkering" method in which its promoters have inacquaried it. They have started with a capital in many cases which would not depart the cost of a werkable shaft, much less provide an adequate plant. The enterprise

shown at the Staveley Works, in respect of the eastings ordered for the Great Exhibition building, is worthy the voteran proprietor of the works. It is now certain that this immense contract, of the value of 60,0004, consisting, we understand, of about 4000 tons weight of castings, will be completed and delivered on the ground of the building within the prescribed time. The Sheffield firms engaged in the manufacture of plates for ironclad ships are making great efforts: o meet the demand, which will go on increasing, as this description of work is to be further introduced into our naval armament. It will afford employment for a large portion of hands at Sheffield, and make up much for the depression existing in the steel and other trades mostly dependent upon unfortunate America. At Gidlow and Swinley Colliery, on Wednesday, one man was killed, three seriously injured, and three much shaken by a sudden jerk of the rope when the cage was about a dozen yards from the bottom of the shaft. The cause of the accident is unknown.

REPORT FROM MONMOUTH AND SOUTH WALES,

REPORT FROM MONMOUTH AND SOUTH WALES,

Newfort, Cardiff, and Swansea, Sept. 5.—There is a general slackening tendency in the Coal Traid during the last six or seven days. The pits and levels are in average work, and some of the collicries are extremely busy, but the dulness which prevails in every branch of business affects the coal market, and tends to disturb its usual active condition. A large number of ressels have arrived at Newport, and both river and docks are crowded with ships. The number of arrivals at Cardiff has to been to large a usual, while at Swanses things are in a very brisk condition. Briton Perry is extending in all directions, and the facilities afforded by the new dock for loading and discharging vassels will eventually secure a large trade to the port. The Vale of Neath Railway Company have subscribed largely to the undertaking, and as far as possible they will make Briton Ferry their port of shipment. This, and the central position of the piece, will render it one of the most important export towns in the Channel in councetion with the coal trade. The South Wales Railway Company will cease to work the Swanses Harbour Railway and the Drops in the South Docks this work. Notice having been given to the harbour trustees, the other public companies, and the reighters of the intention of the South and the Cardiff of the proper in the South Docks from and after the 8th of this month.

The half-yearly meeting of the Penarth Harbour, Dock, and Railway Company was beld on Thursday last,—Mr. Crawshay Bailey, Mr., in the chair. There were also present Messys. Goddard, J. Nixon, W. S. Cartwright, Fowier, Waikins, &c. A dividend of 1 gyr cent, per anom was unanimously agreed to. It was reported that owing to disputes with the contractors, Messrs, Smith and Knight, the company had determined to carry on the works themselves, returning the plant of the contractors according to the terms of the agreement. About 750 men were at present employed. The after the proceedings. The annual meeting of the Cardiff

COAL MINING EXTENSIONS IN GLAMORGANSHIRE.—At a period like the present, when the use of coal is so continually extending, it affords us pleasure to notice the extension of works to meet the demand of this invaluable sure to notice the extension of works to meet the demand of this invaluable mineral. During the last few months a new "winning" has been in progress at the main colliery, near Neath, and on August 29 the well-known Neath Abbey Coal Company's Wernfraith seam, to which the pit was being sunk, was cut at a depth of about 170 yards. By this shaft the company will be able to materially enhance the quantity of coals raised; and as the Main Colliery coal is of that quality which finds ready sale, we have no doubt the undertaking will be very profitable. The average progress from first to last in sinking and walling has been about 2 fms. per week, and the entire time since the commencement has scarcely exceeded 11 months. Many difficulties had to be contended with, owing to water and very hard rocks, but it will be enough to say the other pits on the same property were more years than this has been months in sinking. The mining engineer under whose directions the works are is Mr. John Graham, jun., a gentleman whose experience pre-eminently fits him for the situation. Messrs. Smith and Oliver, of Swansea, were the contractors, and have discharged their duty as contractors in a manner highly creditable to themselves and satisfactory to the proprietors of the colliery. atisfactory to the proprietors of the colliery

How to Make a Railway Unproductive.—In this great railway age severe competition incites our merchants, tradesmen, and public compenies to make prodigious exertions to out-do each other. They strive which shall contribute most to the convenience of the public. Activity and economy is the order of the day, and in the long run the individual of firm that is the most successful is that which is most meritorious and deserving. Many of our mining readers are aware that a short railway has been opened some time since (a small joint-stock company), known as the South Wales Mineral Company. They projected this line of railway from Briton Ferry, in order to transfer the rich mineral productions of the interior. The railway extends some 5½ miles, passing along land than can, for years to come, be made instrumental in affording employment to thousand of workmen. Among the colliery proprietors that have commenced mining operations in that district is the Gyngorwg Coal Company, of whom Messrs. Homfray and Prothero are proprietors; and a number of men have been employed at these works for some time past. A few weeks since the work, for extrain expent reasons, was relinquished, and although Briton Ferry Docks have since been opened, atill no lines of coal wagons are seen to glide along the infant railway. The South Wales Mineral Company are, we believe, confined to very few shareholders, and, judging from the extraordinary policy they adopt, the object of this model company appears to be to disgust as much as possible all enterprising colliery proprietors who may be disposed to feed it by opening collieries. Will it be believed that instead of charging a reasonable rate for transporting coal they make the almost fabulous exaction of 3d. per ton per mile. This rate of charge, when contrasted with the Taff Vale Company's seven-eighths of a penny per ton per mile, accounts in a very satisfactory manner for the reason why Messrs. Homfray and Prothero have suspended operations, and why many other colliery owners whom we could name How to Make a Railway Unproductive.—In this great railway The Yale Railway, as our readers are aware, is perhaps the best paying line in the kingdom. But how have the proprietors been so pre-eminently successful? Assuredly into by driving away their freighters by demanding a rate of carriage that would render it impossible for them to supply their coal to the markets at the same coats as other colliery proprietors, and at the same time obtain adequate remnueration. The South colliery proprietors, and at the same time obtain adequate remnueration. The South colliery proprietors with the same time obtain adequate remnueration. The South colliery proprietors with proprietors and at the same time obtain adequate remnueration. The South colliery proprietors with proprietors and at the same time obtain adequate remnueration. The South colliery proprietors with proprietors and at the same time obtain adequate remnueration. The South colliery proprietors with proprietors and at the same time obtain adequate remnueration. The South colliery proprietors with proprietors and at the same time obtain adequate remnueration. The South colliers are also as the same proprietors, and at the same time obtain adequate remnueration. The South colliers are also as the same proprietors, and at the same time obtain adequate remnueration of the same proprietors, and at the same time obtain a success of the same proprietors, and at the same time of the same proprietors, and at the same time of the same proprietors, and at the same time of the same proprietors, and at the same time of the same proprietors, and the same proprietors are also as the same proprietors and the same p tually than by fixing the rate at a price that is unprecedented in the districts. The Taff Vale Railway, as our readers are aware, is perhaps the best paying line in the kingdom. But how have the proprietors been so pre-eminently successful? Assuredly not by driving away their freighters by demanding a rate of carriage that would render to impossible for them to supply their coal to the markets at the same costs as other colliery proprietors, and at the same time obtain adequate remuneration. The South Wales Mineral Company have by their extraordinary policy succeeded most effectually in stifling the trade and crippling the development of a little railway that would soon prove one of the most profitable to the shareholders were a moderate scale of charges imposed. Hitherto the few colliery proprietors who possess land contiguous to the line have abandoned all hopes of working coal at a profit, notwithstanding the additional facilities offered them since the opening of the dock. It appears, from the conduct of the company, they are deceived in the course they are led to pursue by some blundering person or persons. Have they never heard of the triumphs of cheapness as regards ity paying capabilities? Are they cut off from ordinary channels of information, and from communications with their fellow-creatures? Do their believe in the success of the penny postage. Can they credit that they can visit Paris and return back again for a pound sterling? It would appear that they ignore all these facts when they fixed their charges at 3d. per ton per mile. Coal would, indeed, be an expensive commodity, an enviable luxury, were there many South Wales mineral companies in this kingdom. We do trust that some intelligent shareholder will take up the matter in a proper spirit, and endeavour to remove the reproach that at present rests upon the company, from adopting a course that cannot but prove suicidal. Surely there can be no substantial and valid vages.

NEW MINERAL ORE AND COAL WASHING MACHINERY.

The subject of dressing ores, and of improved machinery for that pur-ose, to which considerable attention has of late been directed, seems to outlinue to excite much interest. This is natural, since the recollection of the vast quantity not only of ores annually raised, but also of the amount of waste rejected, though containing some small percentage of ore, and the knowledge that (as Mr. J. Darlington has shown) an addition of not more

of waste rejected, though containing some small percentage of ore, and the knowledge that (as Mr. J. Darlington has shown) an addition of not more than I per cent. From the staff sent to surface would be equivalent to an additional sale value of scarcely less than 40,000, per annum, prove the immense importance of the subject not only to the miner, but to the country at large.

An improved machine, for separating either ore from gangue, or coal from pyrites and shale, has recently been patented by Mr. Edmund Edwards, C.E., and appears likely to become of considerable importance. Mr. Edwards has for some time past been engaged in experiments upon the cleaning of the above-named substances, and a few years ago patented (in conjunction with Mr. Beacher) a machine for the purpose. This was a modification of that introduced by M. Bérard some time ago for washing coal, and which caused no small interest at the time of the Industrial Exposition of 1851. Whist avoiding, however, some of the imperfections of the latter (and which rendered it specially imapplicable to the dressing of mineral ores, or heavy substances), this machine was not without defects of its own, which experience has shown to be detrimental to its general use, not the least of these being its complication of parts, comparative cost, and want of durability. This experience has enabled Mr. Edwards to avoid the above imperfections in his new machine, which appears to be both cheap and simple, as well as very effective in its action. It consists of a cistern of wood or metal, partially open at the opp, the open part being fitted at a cipth of a few inches with a performed plate, or screen, upon which the ore or coal is fed from a hopper. The top of the ciosed part is considerably lower than the remainder, and has an aperture covered with a cist of leather, upon which is fixed a convex plate of sheet-iron, carrying a block of hard wood. The cistern being fitted with water, the pressure of the latter is sufficient to raise the disca and as a set shaft revo

BRITISH ASSOCIATION-MANCHESTER MEETING.

BRITISH ASSOCIATION—MANCHESTER MEETING.

The British Association for the Advancement of Science commenced their ordinary annual meeting at Manchester, and, judging from the attendance, the prosperity of the institution is as great as its most sanguine admirers could desire. Lord Wrottesley, the President of the past year, having formally resigned the chair to Mr. William Fairbairn, the latter proceeded to deliver a very appropriate and interesting inaugural address. He referred to the immense utility of the British Association in bringing together for a common obververs in practical science. Their periodical reunions have been of insalutable benefit in giving to practice that soundness of principle and certainty of progressive improvement which can only be obtained by the accurate study of science, and its application to the arts. The association does not confine its discussions and investigations to any particular science; and one great advantage of this is, that it leads to the division of labor, whilst the attention which each department receives, and the harmony with which the plan has hitherto worked, is the best guarantee of its wisdom, and proof of its success. The bistory of the development of the science of autronomy, and its sister sciences—meeting, the progress which had been made in practical science. Referring to the iron annufacture, of wrought-iron was of the most created and primitive description. A hearth and a pair of bellows were all that was employed; but, since the introduction of pudding, the iron science was a consecutive series of chemical researches into the different processes, from the calcining of the ores to the production of the bar, carried on by Dr. Perey and others, has to to a revolution in the manufacture of iron; and although it is at the present moment in grade to the science of this Association at Chelcham—affords the highest promise of certainty and perfection in the operation of converting the melted pig direct into steel or iron, and is likely to lead to the most importa

measures, and other strata; and many flint implements from the drift and the solution period.

On Thursday morning the various sections regularly commenced their proceedings. On Thursday morning the various sections regularly commenced their proceedings. Passing at once to the Geological Section, we may state that Sir R. I. Murchison, the president, delivered an address of an elaborate and highly instructive character; but at the same time one which was altogether free from needless technicalities, calculated to render it tedious; it was, in fact, an address which would tend to induce the love of the science even amongst those by whom it had hitherto been considered requisiter. Be described the several beds of gravel, sand, and till, forming the superficial covering of the district;—1. The valley gravel, with its successive terraces; 2. The widely distributed upper sand and gravel; 3d. The great deposit of boulder clay or till, which is atome places 90 ft. thick, and yields the brick earth of the vicinity; 4. A lowel bed of gravel. The underlying rocks or skeleton of the country, known chiefly by boring operations, were then treated of—1. The trias, or upper red series, about 500 ft. thick; 2. The lower new red or permian series, including a pebble bed, mark, sandstones, and Ilmestones with gypsum, amounting to 600 fest altogether. These overlie the coal measures, and have been pierced in search for coal at Mediock Vaic and elsewhere. These beds were regarded by the lecturer as equivalent to the lower permian best. These beds were regarded to the town of the contribution of the c

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rock was contrasted with ordinary lava, and the improbability of the latter being connected with the molten central mass of the earth. Upon the conclusion of the discussion which followed the reading of the paper, Mr. Scott promised some remarks at a fature period on the grantizes of Ireiand, and their relations to the metamorphic rocks, gathered from a tour in Donegal.

STEAM NAVIGATION IN BRAZIL.—The very inefficient means of transport for merchandise in the inland parts of Brazil is prominently referred to in the official report of Mr. Baillie, Her Majesty's representative in that country, upon its trade and commerce during the year 1860. Although during the past few years much has been done in the way of opening up an improve I means of communication, it is only within a comparatively few months that the works have been sufficiently complete to produce any appreciable effect. It is to our shipbuilders and engineers that Brazil has been chiefly indebted for the construction of her steamers and railways, and to us she naturally looks for such financial co-operation as may help her still surther to advance her own commerce, whilst she is purchasing from us the active means of its extension. A proposition, founded upon such reciprocity of benefit, presents itself in the prospectus of the Bahla Steam Navigation Company (Limited), naving special reference in the proposition of the Bahla Steam Navigation Company (Limited), naving special reference on the proposition of the Bahla she in metroprise. The opening of the Bahla Railway has already added so much to the passenger and goods traffic in the Bay, as well as to and from the various ports on the Brazillan coast, in direct communication with the city of Bahla, as to render necessary a material extension of the previous steam-vessel accommodation of the port; and as the local steam-ship companies are not capable of meeting the increased demand, their interests have merged in those of the Bahla Steam Navigation Company (Limited), now being completed in London. This new company will represent the commercial influence of both countries, and holding a monopoly of the trade under exclusive concessions, will convey passengers and merchandise from the Bahla and San Francisco Bailway to the city as the nearest point, and to the remotest ports within the limits of the Government grant. The subsidies, payable monthly, being small to above

gation Company offers many inducements to the British capitalists, and with judicious management failure would be almost impossible.

ZINC AND LEAD MINING IN SWEDEN.—The celebrated mines of Stollberget, which have been reported by Prof. Carlberg, the director of the Swedish Government Department for Mines, to be the richest in the kingdom for silver, lead, and zinc ores, are about to be vigorously developed by an English company—the Victoria Silver, Lead, and Zinc Company—with a capital of 30,0001., in 101. shares. An average sample from 15,000 tons, already gotten, gave 29 per cent. for lead and 40 to 80 czs. of silver per ton of lead. Of the capital, 10,0002. (in cash and shares) is to be paid to the lessors for transferring all rights and interest to the company, and 70001. is to be paid for lead smelting furnace, dressing apparatus, roads, transays, &c., in Sweden, and for zine amelting works at Hartispool or Sunderland, so that 13,0002. Will remain for working capital. The mines have been carefully inspected and reported upon by Mr. John Darlington (Phillips and Darlington), who is well known to most of our readers, and who was recommended to the secretary by Mr. Robert Hunt, F.R.S., of the Government School of Mines, as a "gentleman knowing more of the metallurgy of zinc than any one else he knew." His report is of a very elaborate character, and generally favourable; he estimates the profits upon spelter at rather more than 51, per ton, and that upon the lead at upwards of 142, per ton. He concludes his report by observing that "it would be unsafe to rely implicitly on any calculations that may be made relative to the profit likely to accrue on this undertaking: but considering, first, the antiquity of the mines, and large extent of excavations made by the ancients, implying that they were profitably worked during an extended period; second, the almost entire absence of water in the various workings; third, the large quantity of surface water which exists for driving all kinds of machinery; fourth, the c

Mineral Resources of Canada.—In calling attention to the mineral resources of Canada in the Mining Journal of last week, we referred to the formation of the Canada Mining Agency Association, and we this day publish the preliminary prospectus of the undertaking. The very partial explorations made have laid open a large number of valuable deposits, some of undoubted importance. As the prospectus contains ample details of the course of operations which the association intends to pursue, comment here is unnecessary. The capital is fixed at \$100,000, in shares of \$80 each, with power to increase it to \$500,000. The liability of the share-holders will be limited under the general Act of the Provincial Legislature, but it is intended ultimately to obtain a special Act of Incorporation. An efficient staff of explorers will be employed, and places of business will be opened in Canada, the United States, and England, the chief office being at Montreal.

will be employed, and places of business will be opened in Canada, the United States, and England, the chief office belifg at Montreal.

New Mineral Railway in North Wales.—The richness of the mineral deposits of Anglesey has long been known, but, owing to the very insufficient means of communication, comparatively few mines have been opened, and still fewer have proved remunerative to the adventurers. The Parys Mines, however, stand prominently forward as a monument of successful mining enterprise, and a mineral railway is now projected for opening up the district—the Anglesey Central Railway—which will admit of a large number of the mines which have hitherto laid dormant to be made to add to the mineral wealth of the kingdom. The proposed line is to commence at the Gaerwen station of the Chester and Holyhead Railway, and, skirting the Berw coal field, to proceed to Liangeful and Lianerchymedd, thence passing the Parys Mines to Amiwch. Apart from the large revenue which must be derived by the company from the carriage of minerals from the mines, which are situate along the entire length of the line to the smelting-works, which are near its western extremity, considerable profits may be relied upon from the carriage of coal to the smelting-works, where the annual consumption exceeds 30,000 tons, and where, owing to the great effect which the weather has upon stopping the present means of communication, delays of seven weeks have sometimes occurred in getting their supply. The whole of the land owners, through whose properties the line will pass, fully appreciate the advantages derivable from the undertaking, so that there will be no parliamentary opposition to contend against: indeed, the whole of the land, with trifling exceptions, has been promised at a fair agricultural price, and, in many instances, the amount thereof (and in some cases more) will be taken in shares. During last week an influential meeting was held at Amlwch, at which Mr. R. T. Griffith presided. The capital of the company has been fixed at

Steam on Common Roads—the National Traction-Engine Company.—If evidence were needed of the great importance of a successful practical application of steam on common roads in the consummate and more profitable development of our several industries, it would be amply afforded by the auxiliary assistance which has recently been rendered by the national Legislature in the reduction and regulation of tolls upon traction-engines. Since the attention of some of our most eminent engineers has for a long time past been devoted to the production of an engine equally efficient upon a metal as upon a clayer road, it is to be expected that, by theavoidance of certain defects, and the introduction of marked improvements, the most perfect machine will be introduced, and, therefore, when it is stated that the experimental journey performed on Saturday last by the powerful engine constructed by Messas. Gardiner and Mackintosh, of New Cross, according to the patent of Messrs. Longstaff and Pullan, was regarded by the scientific men who witnessed it as a most perfect success, it must not be thought that any dwerse reflection is cast upon previous inventions; nor when it is further stated that this engine, the patent right to manufacture which has been purchased by the National Traction-Engine company, seems to possess in an eminent degree the various requirements expected of a perfect traction-engine, that anything invidiciously is intended with reference adverse reflection is cast upon previous inventions; nor when it is further stated that this engine, the patent right to manufacture which has been purchased by the National Traction-Engine Company, seems to possess in an eminent degree the various requirements expected of a period traction-engine, that anything invidiously is intended with reference to the several inventions which have preceded it, all of which possess their respective merits. But Messrs. Longstaff and Pullan claim to have surmounted at least two very great difficulties—the avoidance of the excessivestrain to which the boiler was subjected in being the foundation of the principal portion of the driving machinery, the reciprocating motion of which inevitably resulted in the production of so much leakage that the strongest boiler was rendered unft for service after a comparatively short time; and they have also overcome the difficulty of applying the apring usually attached in wheel carvinges in such a manner that, while sufficient elasticity is provided to compensate for the inequalities of the road, the relative position of the driving crank and intermediate shafts are rigidly maintained, in order that the gearing employed may not be liable to sam or work with unnecessary friction. The steering apparatus is so constructed that the power is communicated through the medium of a screw, or a pair of screws, ranged parallel to each other, so that while the nicest adjustment can be instantaneously obtained, the parts form a rigid connection, free from all disturbances, until the power of the person form a rigid connection, free from all disturbances, until the power of the person control of the engine than has hitherto been attained. Another feature that sworthy of attention is the novel principle involved in the construction of the driving-wheel—the combination of wood and iron, so arranged and proportioned as to scenar all the necessary elasticity of the former without losing the strength and carbon the result of the supplements of a traction engi

contract, or, in other words, letting them out on hire; and, therefore, in some respects similar to those successful undertakings to which we have so often called attention formed for the purpose of supplying rolling stock to railway companies, and which continue to pay a very handsome profit upon the capital invested, while, at the same time they from time to time add to their stock on hand and reserve capital. It is said that the National Traction-Engine Company have already been offered contracts which it is estimated will produce 1000t, per annum profit.

PATENT BITUMINISED PAPER PIPES.—As we presaged, these pipes, while in several important respects superior to iron, are found capable of general application wherever metal pipes would otherwise be employed. It says something for the importance and utility of the invention to find that no less an authority than Mr. Nicholas Wood has recently ordered a large quantity of these pipes to be used, we understand, at the Hetton Colliery, it having been found that for colliery purposes they are in all respects superior to any other description of pipes. Being extremely light, and, therefore, easily conveyed upon mules' backs across the mountains, a large quantity has recently been ordered by a party interested in several South American mines, where they are to be used for the purposes of ventilation. As they will have to be conveyed for several hundred miles across the mountains, their extreme lightness is a most important recommendation, and upon the same account bituminised paper bottles will probably soon superseds from bottles for the transmission of quicksliver from Mexico and other piaces. As these pipes can as easily be joined as they can be disconnected, and, therefore, resally moved from place to place, they are peculiarly adaptable to brick and pottery works, and they have been lately efficiently used at the Royal Victoria Patriotic Asylum, Wandsworth, in the conveyance of liquid manure, for the purposes of irrigation. It is said this service of pipes, which would, if made of iron, have cost something like 2501, has been laid down for between 601, and 701.

purposes of irrigation. It is said this service of pipes, which would, if made of iron, have cost something like 250t., has been laid down for between 60t. and 70t.

Our Wine Mart.—It is not the least beneficial attribute of the new fiscal system relating to the importation of foreign wines, that a really genuine and generous article of vinous consumption can be brought within the reach of the working classes of this country. We can well remember how difficult it was for an ailing workman in our mining and manufacturing districts to obtain, except at a price far above the menns his avocations supplied, any wine ordered as a medicinal restorative; more difficult still was it to find that which could be relied on for such a purpose. But those days are, fortunately, passed. The high prices which gave a premium to foreign growers for the adulteration of wines shipped to England no longer exist, and such produce now comes into the market dependant upon the labouring and artizan classes, but the middle and higher orders of society are proximately the gainers. Soyer it was who laid it down that wine more generally used for culinary purposes would put an end to fermentative dyspepsia in the pariour; however, this is a gastronomic theory we do not care to discuss. Enough that the entire community, but particularly that great element of it our industrial population, is secured an extensive and beneficial sphere of selection as to healthful substitutes for these noxion spirituous incentives to intemperance from which, according to our sanitary statistics, it has so fatally surfered. Among the several competitors for public confidence are the "Vintage Wine Company," whose Xeres Golden Sherry has been satisfactorily certified to us as of so pure and nutritious a quality, that we notice this product of the vineyard as a boot to the general public, and particularly to the mining and manufacturing population in whose well-being we are the more immediately interested. A genuine Spanish wine at 1s. 6d, per bottle, which, a littl

we do not hesitate to notice it is so I public utility.

HOLLOWAY'S PILLS—THE LIVER AND ITS AILMENTS.—Alterations of temperature and muggy weather exert the most deleterious influence over the liver and its secretions. Against occasional bilious attacks no precaution can always guard, but Holloway's pills place their immediate cure within the reach of all; fermented ilquors should be refrained from, and all errors of diet scrupulously avoided, while these purifying pills are being taken according to the printed differetions which envelope them. They will soon dispel uncasiness, and discipline all disordered action, without interfaring with business, pleasure, or study. Palns in the back, flattlency, constipation, and abdominal fulness are likewise remediable by the same means, which, without irritating or annoying, regulate, restore, and strengthen every organ.

Board of Admiralty, Somerset House.

Board of Admiralty, Somerset House.

ONTRACT FOR COALS FOR FAYAL.—
THE COMMISSIONERS FOR EXECUTING THE OFFICE OF LORD HIGH
ADMRAL OF THE UNITED KINGDOM OF GREAT BRITAIN AND IRELAND
do hereby give notice that, on Tuesday, the 24th September next, at Two o'clock, they
will be READY to TREAT with such persons as may be willing to CONTRACT for
SUPPLYING and DELIVERING on board Her Majesty's steam-vessels in Fayal Roads
all such quantities of SOUTH WALES COALS, at for Her Majesty's steam-vessels, as
shall from time to time be demanded under a contract for twelve months certain, from
1st December, 1861, and afterwards until the expiration of three months' warning.
A form of the tender may be seen at the said office. No tender will be received after
Two o'clock on the day of treaty, nor will any be noticed unless the party attends, or an
agent for him duly authorised in writing.
Every tender must be addressed to the Secretary of the Admiralty, and bear in the
left-hand corner the words "Tender for Coals," and must also be delivered at Somersetplace, accompanied by a letter signed by a responsible person, engaging to become bound
with the person tendering, in the sum of £200, for the due performance of the contract.
Department of the Storekeeper General of the Navy,
Somerset-place, Aug. 21, 1861.

Royal Dockyard, Pembroke.

CONTRACT FOR COALS.—Persons who may be willing to CONTRACT for the SUPPLY of all or any of the descriptions and quantities of COALS specified in the following form of tender, will send in seeled tenders to the office of the captain superintendent of the above dockyard, on Tuesday, the 10th o

CONTRACT for the SUPPLY of all or any of the descriptions and quantities of COALS specified in the following form of tender, will send in sealed tenders to the office of the captain superintendent of the above dockyard, on Tuesday, the 10th of September next, at Twelve o'clock precisely.

FORM OF TENDER FOR SUPPLYING COALS FOR HER MAJESTY'S DOCKYARD, AT PEMBROKE.

Quantity.

When to be delivered.

Price p. ton.

50 tons by 30th November, 1861

50 tons by 31th January, 1862

50 tons by 31th March, 1862

5

Should the contractors fall in delivering all or any of the coals by the periods men-tioned, and the captain superintendent thereby finds it necessary to purchase other coals in lieu thereof, the contractor is to pay all extra expenses which may be incurred by

in lieu thereof, the contractor is to pay all extra expenses which may be incurred by such purchase.

Rejected coals to be removed by and at the expense of the contractor. If not removed within 14 days, the officers of the yard may remove and charge him with all expenses. With every delivery of coals for steam vessels, the contractor must deliver to the said officers a certificate from the person who actually shipped them, specifying the denominations of the coals, that they are the best description and quality known under that denomination, and that they were handpicked or properly screened, and made free from small coal and dust at the time of shipment; and no certificate will be recognised but that of the parties authorised to sign it at the collieries from which the coals are supplied. Although particular quantities of the coals are to be delivered at stated periods, the respective officers shall be at liberty to receive a greater part, or the whole, at such times as they have room to stow them.

Every tender must be accompanied by a letter, and signed by two responsible persons, engaging to become bound with the persons tendering in the sum of £20 per 100 tons of coals for the due performance of the contract, and the letter must contain a reference to some person or persons well acquainted with the sufficiency of the parties offering to become bound, and persons in partnership with the contractor, or with each other, will not be accepted as sureties.

come bound, and persons in partnership with the contractor, or with each other, will not be accepted as sureties.

Tenders may be made for the supply of any one or more of the quantities of coals wanted for dockyard purposes only, or for steam vessels, or for the whole contract, and remust contain a separate price for each quantity offered.

Half the amount of stamps or contract and bond to be paid by the contractor. The party or parties whose tender may be accepted will be required to have an authorised agent, or the party himself, to reside in Pembroke Dock.

Royal Dockyard, Pembroke Dock, August 24, 1861.

CONTRACT FOR WELSH COAL.—The Directors of the SOUTH-EASTERN RAILWAY COMPANY are PREPARED to RECEIVE TENDERS for the SUPPLY of TEN THOUSAND TONS of WELSH COAL, suitable for locomotive purposes, to be delivered on to the company's line at Reading. Tenders to be sent in on or before Wednesday, the 18th September next, endorsed "Tender for Coal," addressed to the undersigned.

Government School of Mines, Jermyn Street.

GOVERNMENT SCHOOL OF MINES,

JERMYN STREET, LONDON.

DIRECTOR—SIR RODERICK I. MURCHISON, D.C.L., &c.

The prospectas for the Session, commencing on the 7th October next, will be sent on application to the Registrar. The Courses of Instruction embrace Chemistry, by Dr. Hofmann; Physica, by Prot. Tyndali; Natural History, by Prof. Huxley; Geology, by Prof. Ruansay; Mineralogy and Mining, by Mr. Warington Smyth; Metallurgy, by Dr. Percy; and Applied Mechanics, by Prof. Willis.

TRENHAM REEKS, Registrar.

Miner's Association of Cornwall and Devonshire.

MINER'S ASSOCIATION OF CORNWALL AND DEVONSHIRE.—It is PARTICULARLY REQUESTED that ALL PAPERS or COMMUNICATIONS intended to be brought before the Miner's Association at the annual meeting, appointed to be held at Falmouth, on the 18th of September, BE SENT BEFORE the 10th of SETTEMBER, to the general honorary secretary, Robert Hunt, Portreath, near Redruth.—August 28, 1861.

THE BRITISH SLATE COMPANY (LIMITED)—NOTICE.—
The FIRST ORDINARY GENERAL MEETING of the shareholders of this company will be HELD at their offices, No. 25, Clement's-lane, E.C., on WEDNESDAY, the 18th day of September, 1861, at Twelve o'clock precisely.

The books for the registration of transfer of shares are closed until after the above—meeting.

By order,

R. HILL, Sec. pro tem.

THE SLATE MOUNTAIN COMPANY (LIMITED).

The Directors of the above company hereby give notice that they have concluded an arrangement with a thoroughly responsible party to undertake the management of the company's operations in Waies; and have, at the same time, to inform the public that the MANAGER has undertaken to GUARANTEE to all shareholders in the company a DIVIDEND for the FIRST YEAR, and has lodged with the company's bankers an amount of cash more than sufficient to cover his guarantee.

4, Lothbury, E.C.

By order,

A. MAYOR, Secretary.

THE SLATE MOUNTAIN COMPANY (LIMITED).

Capital £30,000, in 6000 shares of £5 each.
Deposit, £1 per share; and £1 upon allotment.
ant to the Joint-Stock Companies Acts, limiting the liability of each shareholder to the amount of their subscriptions.
CHAIRMAN—Major-General MASON, Brompton.
DERCTORS.

shareholder to the amount of their subscriptions.
CHAIRMAN—Major-General MASON, Brompton.
DIRECTORS.

ALEXANDER CURRIE, Esq., Feighbridge, Newton Abbott.
JOSHUA FINNER, Esq., South American Chambers, Cecil-streef, Strand.
Lord GORDON, Hampton, Surrey.
Coionel GEORGE M. GUMM, Beaumont-street, Portland-place.
JOSEPH HOPGOOD, Esq., Addison-road, Kensington, W.
Capt. JORDAN. Chertaey, Surrey.
EDWARD FREDK. LEEKS, Esq., F.L.S., 2, Walbrook, E.C.
JOHN WALKER, Esq., Konliworth House, Cheltenham.

BANKERS—Bank of London, Threadneedle-street.
BROKERS—Messrs. Ross, Lainson, and Bedford, 4, Lothbury.
Henry Piint, Esq., Park-row, Leeds.
James Case, Esq., Liverpool.
H. W. Poutney, Esq., 5, Royal Exchange, Manchester,
Messrs. Stephens and Son, 44; Dame-street, Dublin,
Messrs. Adamson and Horne, 46, Marischal-street, Aberdeen.
Messrs. T. and A. Fox, 51, Dane-street, Dublin.
Messrs. T. and A. Fox, 51, Dane-street, Dublin. Secretary (pro tem.)—Mr. Mayor. OFFICES,-4, LOTHBURY, LONDON, E.C.

OFFICES,—4, LOTHBURY, LONDON, E.C.

This company has been formed for the purpose of purchasing an unusually long lease or grant, to work certain veins of slate rock extending under about 100 acres, situated on the north-east side of a farm called Croseer Bach, in the parish of Llanfrothen, in the county of Merionethahire, and believed by competent judges to be the richest known slate deposit in all Wales.

With a working capital of £10,000 it is estimated that 7000 tons of slates can be made annually, which would realise a profit of about 48 per cent, per annum.

Mr. Robt. Hant, F.R.S., Compiler of Mining Records for the Government, has recently made a calculation as to the average of the profits from the workings of slate quarries in Wales; he gives them at upwards of 50 per cent., and some of the large quarries, it is confidently affirmed, realise as much as 100 per cent.

To ensure subscribers from any loss, which often arises when a sufficient number of shares are not subscribers from any loss, which often arises when a best to the benefit of the deposit money, unless at least one-half of the shares be taken.

Applications for shares, with a deposit of £1 per share, can be sent to the bankers, brokers, or to the secretary, at the company's offices.

Samples of the slate rock from the quarry can be seen at the offices, 4, Lothbury.

Full prospectus, with reports upon the quarry by one of the Government Geological Surveyors; Mr. Jones, the slate merchant in the City-road; Mr. William Griffiths, the manager of the Moelwyn Quarries; Capt. Sline Evans, of Ovoca, manager of the Carysfort Mines; and other practical and experienced authorities, together with forms of application for shares, can be obtained from the secretary, at the company's offices, 4, Lothbury, or from any of the brokers.

THE SLATE MOUNTAIN COMPANY (LIMITED).— Notice is hereby given that, owing to the numerous applications for shares already sent in, the Directors will meet to consider the same and MAKE the REQUISITE ALLOTHENTS on FRIDAY, the 27th of September.

Offices, 4, Lothbury.

By order,

A. MAYOR, Secretary.

THE SLATE MOUNTAIN COMPANY (LIMITED).—
ALL APPLICATIONS FOR SHARES in this company MUST BE SENT in to
the Brokers or Secretary ON OR BEFORE THURSDAY, the 26th of September.
By order, A. MAYOR, Secretary.

Depretence of Secretary ON OR BEFORE THURSDAY, the 26th of September. By order, A. MAYOR, Secretary.

CANADA MINING AGENCY ASSOCIATION.—

The recent discoveries of important and valuable deposits of gold, copper, lead, and other useful metals and minerals in Lower Canada, appear to present a new and extensive field for the profitable investment of capital, both in actual mining and in the requisite preliminary researches and other operations. It has been ascertained by the provincial geologists that the metalliferous region in which such deposits are to be found extends over about 15,000 square miles in Canada, and is of the same geological formation with the mineral territory on the south shore of Lake Superior, and with the great Appalachian Chain in which, throughout the Eastern States of the neighbouring Union, mining operations (especially for the more precious metals) have been long and successfully prosecuted. The mineral deposits in Lower Canada sequire a greatly increased value from the fact that they are for the most part in close proximity to the Grand Trunk Railway and its branches, and to ocean navigation.

The very partial and imperfect explorations hitherto made, extending over a tract of about 7000 square miles, have revealed the existence of about 130 distinct localities where actual discoveries of copper and other valuable ores have been made. Some of these are of undoubted importance for mining purposes, while in one instance (that of the well-known Acton Mine) the deposit ranks among the richest which the world has yet serve adeposits of this extensive area, and would seem to justify a reasonable expectation of success in such an undertaking. The expenditure required for conducting explorations in a thorough and systematic manner is so great as in most instances to preclude their being undertaken by individuals; while the circumstance that a single fortunate discoverly will amply compensate for the loss upon many less successful operations, points to the principle of association as peculiarl

enterprises.

In the present circumstances of Canada, however desirable it may be that this department of her national resources should receive its full development, it is not to be expected that adequate means can be raised in this country for mining on a large scale; but it is believed that capital could be attracted hither for that purpose, if a permanent and reliable medium of communication could be established between proprietors of mineral lands in Canada and capitalists in England and in America, by means of which accurate and authentic information could be procured, either by holders of mining locations or by intending purchasers.

and authentic information could be procured, either by holders of mining locations or by intending purchasers.

It is, therefore, proposed that a company be formed with limited liability for the purpose of developing the mineral wealth of this country, and of furthering the acquisition and working of mineral deposits by capitalists, either on this Continent or in Europe; and it is suggested that the precise nature, objects, and character of the projected association should be the following:—

1.—That the company be called the Canadian Mining Agency Association.

2.—That the capital of the company be \$100,000, in shares of \$10 each, with power to increase it to \$500,000.

3.—That the company be incorporated under the general Act for the the company be incorporated under the general

3.—That the company be incorporated under the general Act for that purpose, but that a special Act of incorporation be ultimately obtained.

4.—It shall be the business of the company to undertake the exploration of localities in Canada where indications of mineral deposits are found or may be expected; to acquire lands or mining rights in such localities, and to dispose of them as they may think proper; to act as agents for the purchase, sale, or lesse of mining locations; to examine for third parties locations where indications of mineral deposits are to be found, or are supposed to exist; and generally to transact all business relating to the establishment of mines in Canada.

5.—It is proposed that it shall be competent for the company, with the consent of shareholders representing at least three-fourths of its subscribed stock, to enter upon the business of mining; but mining operations for the production and sale of ore shall not form a part of its ordinary business.

6.—It is proposed that an efficient staff of explorers be employed, and that offices for the business purposes of the company be opened in Canada, in England, and in the United States, where plans and specimens of minerals shall be kept, and all requisite information registered.

tion registered.

7.—The chief place of business of the company shall be at Montreal.

It is proposed that a subscription list be at once opened, and that so soon as \$20,000 of stock shall have been subscribed a meeting shall be held for the election of provisional directors, to hold office till the whole of the capital is subscribed, and for the general organisation of the company. But until the full amount of \$100,000 of capital stock be subscribed bons fide no calls shall be made, nor shall the company commence operations

In any way.

The subscriptions will be subject to diminution at the discretion of the directors.

A book for the subscription of stock in this company is kept at the office of Messrs.

Wilson and Robb, mining engineers, 53, St. François Xavier-street.

Montreal, August 15, 1861.

A SSAY OFFICE AND LABORATORIES.—
MESSES. MITCHELL AND RICKARD beg respectfully to inform their friends that they have REMOVED from Dunning's-alley to No. 29, GREAT ST. HELEEN'S, BISHOPSGATE STREET WITHIN, where the business will be conducted as usual, in all classes of mineralogical, agricultural, and commercial assays and analyses, at moderate free.

nees, cial instruction to gentlemen desirons of acquainting them ds of ascertaining the value of ores, manures, manufacture rithout having recourse to professional assistance.

PROSPECTUS OF THE

BAHIA STEAM NAVIGATION COMPANY (LIMITED).
Capital £160,000, in 16,000 shares of £10 each.
Deposit on application, 10s, per share; and 10s, on allotment.
Three months' notice will be given of future calls, which will in no case exceed
30s. each per share.

JUS. each per share.
DIRECTORS.
J. ROSCOE ALLEN, Esq., Oak House, Preston.
WENTWORTH CLAY, Esq., 11, New Broad-street, London.
G. K. HUXLEY, Esq., North Bank, Regent's Park, London.
CHARLES LANE, Esq., Liverpool.
JAMES OVEREND, Esq., Upper Clapton, London.
EDMUND PEEL THOMSON, Esq. (firm of Ormerod, Thomson, and Jarvis), Manchester.

Chester.

JOHN WATSON, Esq., 47. Parliament-st., and Albion Lodge, Stamford Hill, London.
(With power to add to their number.)

BANKERS-Messrs. Harkey, Fenchurch-street, London.

SOLICITORS-Messrs. Hargrow and Fowler, Parliament-street, Westminster.

STOCKBROKER-James Shepherd, Esq., Auction Mart, London.

SHIPBROKERS-Messrs. Alfred Brett and Co., 150, Londonhall-street, London.

SECHETAIT-H. F. Wilson, Esq.

TEMPORARY OFFICES, -36, CANNON STREET, LONDON, E.C.

TEMPORARY OFFICES,—36, CANNON STREET, LONDON, E.C.

The Bahia Steam Navigation Company (Limited) is established for the purpose of affording more adequate accommodation to the increasing commerce of the Empire of Brazil,—more particularly the province of Bahia;—which imperatively demands more rapid means of passenger communication, and greater facilities for the convoyance of produce; and for bringing its extensive cotton land into cultivation.

Two steam ship companies have been successfully engaged in the Bahia trade and passenger traffic for some time—namely, the Santa Cruz and the Bom Fim Companies; the first affords bi-monthly passages between the City of Bahia and the towns of Macelo on the north, and Caravellas on the sonth, calling at the intermediate ports of Sergipe, Cottaguiba, liheos, Canaviciras, and Porto Seguro; and the second provides for the local navigation of the Bay of Babia, including communication between the City of Bahia and the numerous and populous towns situated on the borders of the bay.

For the special encouragement and support of these two companies, the Imperial and Provincial Governments have granted exclusive navigation privileges and liberal annual subsidies, which have fifteen years to run; but the companies, the Imperial and subsidies, which have fifteen years to run; but the corresponding addition of steamers, and collateral resources, absolutely indispensable; and it has been, therefore, arranged that the property and interests of these companies shall be merged in the Bahia Steam Navigation Company (Limited), with more adequate capital at its command.

The capital of the company will provide ample funds to cover the cost of the ten steamers now employed upon the routes before mentioned—viz., three timber-built steamers of from the Bahia of the company will provide ample funds to cover the cost of the ten steamers movemployed upon the routes before mentioned—viz., three timber-built steamers of from the Bahia and San Francisco Rallway terminus to the City of Bahia; as well

and goods conveyance.

It will be correctly concluded that profitable returns have been made during the few years in which the two initiatory companies have been in operation; and that, the City of Bahia, with its population of nearly 200,000, being the centre point of communication with the entire traffic, the divisible returns will increase, with additional steamers, much beyond the mere ratio of extended trade.

with the entire traffic, the divisible returns will increase, with additional steamers, much beyond the mere ratio of extended trade.

Assuming, as a basis of calculation, that the receipts of this company's steamers, from ordinary traffic, will simply pay their working expenses, and charges for insurance, depreciation, repairs, &c., the directors have their confidence in it, as a commercial undertaking, amply established by the fact, that the subsidies alone are sufficient to pay about 12½ per cent, upon the entire capital of the company; as the annual amount of the grants from the Imperial Government of Brazil, and the Provincial Governments of Bahia, Sergipe, and Alagoas, is 180,000 mil reis, nearly £20,000, regularly made by monthly payments. But the directors feet themselves warranted in expressing their conviction that the dividends of the shareholders will be considerably enhanced by the absolute working profits of the fleet.

Provisional arrangements have been made for the transfer of this company of the Imperial concessions and privileges, and of the floating and other property as well as local interests of the compandes mentioned, on very favourable terms.

Applications for shares, in the annexed form, addressed to the directors, may be sent to Mr. H. F. Wilson, secretarry, at the temporary offices of the company, or to the broker; but no application will be considered unless a deposit of 10s, for each share applied for shall have been previously made with the bankers of the company.

but no application with the bankers of the company.

FORM OF APPLICATION FOR SHARES.

To the Directors of the Bahia Steam Navigation Company (Limited).

GENTLEMEN.—I request that you will allot me shares of £10 each in the above company, having paid your bankers the deposit of 10s, per share thereon, and in consideration of such allotment, or any less number you may appropriate to me, I hereby undertake to pay future calls thereon, and to execute the Articles of Association when required.

Name in full

Residence

EAST WHEAL MARTHA MINING COMPANY (LIMITED)

EAST WHEAL MARTHA MINING COMPANY (LIMITED)
Capital £15,000, in 6000 shares of £2 10s. each.

5s. per share to be paid upon application, and 5s. upon allotment. All future calls not to exceed 5s. per share, and not often than quarterly.

DIRECTORS.
GEORGE SEARBY, Esq., Crown-court, Threadneedie-street, London, EDGAR WILLIAMS YARROW, Esq., 14, Arundel-square, London, JAMES LANE, Esq., 44, Threadneedie-street, London.

T. C. HAWKINS, Esq., 9, Broad-street, Oxford.

THOS. COOPER SMITH, Esq., Warnford-court, Throgmorton-street, Bankriss—London and County Bank.

Solicitor—Frederick Win. Snell, Esq., 1, 1, George-street, Mansion House.

Auditors—Messrs, Cooper Brothers and Co., 13, George-street, Mansion House, London, Consultino Agent—Capt. Joseph Richards.

SECRETANT—Mr. E. Evans.

OFFICES,—23, MOORGATE STREET, CITY, LONDON, E.C.
The object of this company is to purchase and work the mineral ground lying between the Devon Great Consols and the Great Wheal Martha.

OFFICES.—23, MOORGATE STREET, CITY, LONDON, E.C.
The object of this company is to purchase and work the mineral ground lying between the Devon Great Consols and the Great Wheal Martha.
There are few instances of mining where success would appear to be more certain than in this case, as this mine is situate west of the Devon Great Consols, and east of the Great Wheal Martha. The success of the former mine is too well known to the public to require much comment, but it may be stated that it has returned in dividends nearly £1,000,000, on an original capital of £1024. The Great Wheal Martha Mine is one of the most successful instances of an old mine being reworked, the company having sold in a few months ores to the amount of nearly £3500, and having at the present time about 1000 tons of ore broken and being prepared for sale, while the reserves in the different levels amount to more than 5000 tons, and there is no doubt the mine will soon commence paying good and lasting dividends. All this is the produce of one lode only, which has held continuously from the upper to the lower level, and is now in the bottom level 16 ft. wide, a fine course of ore. This lode is by practical men considered to be a continuation of the Devon Great Consols lode, and as the East Wheal Martha Mine is situated exactly between the two mines, there cannot be any doubt of this mine having the same lode running through the entire length of the soft, from east to west; and there is one great fact to be borne in mind, that the further the levels at Great Wheal Martha are driven east the richer the lode becomes; and as the lode is dipping east and passes through this property, there can be no doubt of the mine proving as rich as its neighbours.

This mine will be drained to a considerable extent by the Great Wheal Martha, as the levels in that mine approach it eastward, a fact of the greatest importance as regards the expenditure and development of the mineral wealth contained in this property.

This mine has been worked and a large capital

that they had sunk their shaft too far south to cut the Devon Great Consols lode, which passes through the high ground above, and were making great exertions by driving a level northward to intersect this lode, but want of sufficient steam power, and the shareholders not being inclined to subscribe further, the mine was abandoned.

Arrangements have been made with the present proprietors for the purchase of this property, the proprietors to receive 2500 shares, free of all calls, and £1500 in cash, the latter to be returned to this company by an allowance out of the dues as the ores are raised and sold. This return to be made is a fact of importance, proving that the proprietors have every confidence in the mine making large returns, and bringing them in a large revenue.

tion for prospectuses and plans to be made to Mr. E. Evans, 23, Moorgate

a large revenue.

Application for prespectuses and plans to be made to Mr. E. Evans, 23, Moorgate-street, London.

The following is a report from Captain Joseph Richards, who, being connected with the underground workings at the Devon Great Consols, must be well acquainted with the underground workings at the Devon Great Consols, must be well acquainted with the underground workings at the Devon Great Consols, must be well acquainted with the underground workings at the Devon Great Consols, must be well acquainted with the underground workings at the Devon Great Consols of this mine. It is situated directly east and adjoining Great Wheal Martha, where large returns of copper ore are being made, and the Devon Great Consols is in a direct line east of East Wheal Martha, so that this mine may be considered to be in a very first-rate position: the great lode of Wheal Martha must run directly through the sett, as well as several other iodes of very great promise. There have been shafts sunk and levels driven in East Wheal Martha, and aithough they cannot now be seen until the water is in fork, I am assured that the prospects were such underneath as might be fully expected from the very great and good appearances of the lodes at surface. I am fully justified in highly recommending East Wheal Martha as a mining property as mining property as an investment, containing as it does the necessary elements of success. In addition to the very fine appearances of the lodes themselves, there are cross-courses and intersections thereof, with the lodes attendant on which are often found the most splendid and valuable courses of ore. I will conclude by advising you to commence operations as soon as you can manage to do so, and I am exceedingly sanguine of the results proving in every way all I have said and intended to convey relative thereto. If you will refer to my report on Great Wheal Martha of Oct. 3, 1859, you will perceive that the results are bearing out what I then said of that property, and in East Wheal Martha you have

FORM OF APPLICATION FOR SHARES.

Shares £2 10s. each. Deposit on application, 5s. per share.

To the Directors of the East Wheal Martha Mining Company (Limited).

GENTLEMEN,—Having paid £ to your credit at the London and County Mank
freadneedle-street, City, I request that you will allot me shares in the East Whee
fartha Mining Company (Limited), and I hereby agree to accept such shares, or an

EAST WHEAL MARTHA MINING COMPANY (LIMITED) NOTICE.—NO FURTHER APPLICATIONS FOR SHARES will be RECEIVED PRIDAY NEXT, the 18th test.

WILDBERG GREAT CONSOLIDATED MINING COMPANY—PUBLIC SALE.—The MINING PROPERTY, SMELTING WOIKES, and other EXTENSIVE ESTABLISHMENYS, together with the whole of the TOOLS, PLANT, and APPLIANCES belonging to the above company, containing, with the grants attached to them, about 117 acres (Morgen) will be exposed at PUBLIC SALE to the highest bidder, at Cologne, on Monday, September 16, 1861, by the undersigned notary, Air. Egiinger, at his office, Xi. 4, lichimond Strasse.

The mines, including a large number of consolidated concessions, are situated at Wildberg, about 10 German miles from Cologne, and within 4 miles (German) from a station on the railway opened between Deutz (Cologne) and Wissen.

The company has expended more than £49,000 sterling in sinking shafts, in explorations, in the purchase of machinery, and in the exection of smelting works. The whole has been arranged with the most modern improvements, and is in excellant condition. The machinery on the mine is capable of draining it to an additional depth of at least 50 fms., whilst the smelting works are calculated to treat from 250 to 300 tons of lead ore per month. There is also ample house accommodation for the miners and workpeople situated on the property, and belonging to the company.

The silver-lead mines of Wildberg are among the most extensive and important in Germany, and have produced lead and silver to the value of £65,000 sterling during the three last years of working.

For further particulars, apply by letter, post paid—in London, to Messrs. Phillips and Darkinkoron, at the company's office, No. 26, Gresham-street, E.C.; or to Messrs. Amony, Travers, and Shith, Trogmorton-street, E.C.; and at Cologne, to the office of the undersigned notary.

Cologne, August 12, 1861.

SALE OF VALUABLE FREEHOLD ESTATE.

IRONWORKS and STOCK IN TRADE, &c., at BECK HOLE, near GROSMONT, and about eight miles from WHITIN, in YORKSHIRE.

and about eight miles from WHITIT, in YORKSHIRE.

MESSRS. HEPPER AND SON WILL SELL, BY AUCTION, on Wednesday, the 18th day of September, 1861, at Two o'clock in the afternoon, at the house of Mr. Giddey, the White Horse Hotel, in Boar-lane, in Leeds, subject to such conditions as shall be produced at the time and place of sale,
All that FREEHOLD ESTATE, consisting of about TWENTY-SIX AND A HALF ACRES of LAND, and THIRTY THREE NEW and SUBSTANTIAL STONE BUILT COTTAGES, several other cottages and dwelling-houses, with the OUTBUILDINGS and APPURTENANCES.

and APPURTENANCES.

Also, all those EXTENSIVE IRONWORKS, for the manufacture of iron, consisting of BLAST FURNACES, iron hoists, worked by pumps; not air ovens, TWO STEAM ENGINES, BOILERS, ENGINE and BOILER HOUSES, weigh house, blacksmiths', carpenters', and other workshops, offices and premises, together with the commonable and other rights incident to the estate, and all other the real estate, the property of the Whitby fron Company (Limited). The purchasers of the estate will be required also to purchase of the vendors, at a valuation to be determined in the manner set forth in the conditions of sale, the following, viz.:—

to purchase of the vendors, at a valuation to be determined in the manner set iorus in the conditions of sale, the following, wis.:—
All the STOCK IN TRADE and EFFECTS of the WHITBY IRON COMPANY (LIMITED), in and about the above-mentioned premises, consisting of about THIRTY EIGHT TONS of PIG-IRON, upwards of EIGHT THOUSAND TONS of CALCINED IRONSTONE, a quantity of wood, timber, bricks, water-wheel, coals, slack, coke, he-matite ore, fron slag wagons, iron barrows, wrought-iron, wood bridges, sleepers, bridge ralls, sand castings, drain tubes, itensils, implements, stock of hay, cats, eattle, and other farming produce, offee furniture and utensils, and all other effects and property whatsoever in and upon the premises of which the Whitby Iron Company (Limited) are owners.

whatsoever in and upon the premises of which the Whithy Iron Company (Lamieu) are owners.

Further particulars of the estates and premises, and of the effects, will be given by estatelogue, distinguishing those to be sold by auction and those to be purchased by valuation, and may be had, price sixpence, on application to the auctioneers, in Trinity-street, in Leeds aforesaid, on and after Monday, the 9th day of September, 1881.

The premises are situate at or near to Beck Hole and Grosmont, about eight miles from Whitby, in the North Edding of the county of York, are contiguous to the North-Eastern Railway, and the station there, with sidings to communicate, are well supplied with water, abound with quarries of stone, beds of iron ore, and are in immediate contiguity to other large and valuable beds of iron ore, and the whole are advantageously located for carrying on an extensive manufacture of iron.

For further information, apply to BARR, Nelson, and BARR, solicitors, Leeds.

MESSRS. FISHER AND SON WILL SELL, BY AUCTION MESSRS. FISHER AND SON WILL SELL, BY AUCTION, at the house of Mrs. Cork, the Swam Hotel, in Bolton-le-Moors, in the county of Laucaster, on Wednesday, the 25th day of September, 1861, at Six o'clock in the evening, subject to such conditions as shall be then produced, the EXTENSIVE, VALUABLE, and WELL ESTABLISHED ENGINEERING, RION FOUNDING, and MILL-WRIGHT WORKS, known as the UNION FOUNDRY, in BOLTON-LE-MOORS, in the country of LANCASTER.

The land occupied by these works is freehold of inheritance, and contains nearly 4 statute acres, situate in the centre of the town of Bolton, is bounded on the east, south, and part of the north sides by wide and excellent streets, and the London and North-Western Railway extends along and adjoins to the whole of the west side thereof, and communicates with lines of railway of similar gauge laid down through the works.

The BUILDINGS are in good condition, and the works are laid out and adapted throughout to the present requirements of trade.

Several of the WORKSHOPS have been recently entirely rebuilt, and the establishment and working plant have been greatly improved and remodelled during the last few years.

ew years. The BUILDINGS comprise large erecting, boring, planing, turning, fitting, and othe hops: loam, green sand and brass foundries, boiler shops, forge, smithies, patter

coms, &c. The COUNTING-HOUSES and DRAWING OFFICES are large, commodious ulit, of recent erection, and replete with all necessary fixtures, and office furnitur

built, of recent erection, and replete with all necessary fixtures, and office furniture and apparatus.

The MANAGER'S HOUSE (adjoining part of the north side of the works) contains a spacious hall, two parlours, two kitchens, five bedrooms, and other conveniences; there are two houses for workmen, and another house for the watch-keeper.

The OUTHOUSING comprises a coach-house, saddie-house, stabling for 12 horses, and all other requist. cout-huldings and appurtenances.

The WORKING PLAN'T consists of FOUR SYEAM ENGINES and BOILERS for driving same, with turning lathes, planing, boring, slotting, screwing, drilling, groowing, and wheel-cutting machines, canes, cupolas, moulding boxes, boiler-making machines, and tools, fans, smiths' hearths, weighing machines, juries, gas, steam, and water pipes, railways, and all other requisite machinery, tools, implements, and tensils required in a large engineering and millwright establishment.

The PATTEENS include above 1100 of spur, mitre, and bevel wheels, a large assortment of stationary, portable, and marine engines, water-wheels, bydraulic presses, dredging machines, gas apparatus, cranes, bridges, sugar milis, sugar pans, saw milis, pulleys, and general millwork, blenchers, printers, colliery, and other work connected with the requirements of the manufacturing businesses of the district.

The WORKS are adapted for the employment of from 600 to 800 men, and have been in existence above 60 years.

In existence above 60 years.

The property may be viewed on application to John Howard, Esq., on the premise and further particulars may be obtained from him, and on application to Messrs. Rushro and Anmitstead, solicitors, Bolton, at whose offices a plan of the premises may be seen.

TO BE SOLD, BY AUCTION, or Tuesday, the 10th Sept. next, by
Two o'clock in the afternoon, on the mine, in the parish of Crowan, Cornwall, in
One Lot, NEW WHEAL HENDER MINE and MATERIALS, consisting of one 59 in.
cylinder ENGINE, with BOILER about 11 tons; capstan, shears, 2 balance and 1 angle
bob; 330 fms. of wood rods, 7 by 6 in., with plates, bolts, &c.; 16 9 ft. 11 in. pumps,
workings and clack seat pieces to match; 7 9 ft. 4 in. ditto; 3 9 ft. 8 and 9 in. pumps;
2 horse whims, chain, ropes, and kibbles; 85 fms. of ladders, iron and wood bars; 3 clsterns, casings and dividings; smiths' bellows, anvils, smiths and miners' tools, together
with the account-house furniture, and a large quantity of timber, fron, and other useful
articles.

WHEAL MARY GREAT CONSOLS MINE.

WHEAL MARY GREAT CONSOLS MINE.

TO BE SOLD, BY TENDER, in One Lot, all that VALUABLE
COPPER MINE, known as the WHEAL MARY GREAT CONSOLS MINE,
situate at or near ST. NEOT, LISKEARD, together with the EXTENSIVE PLANT,
including the valuable 60 in. cylinder PUMPING ENGINE, WATER WHEELS, MACHINERY, and all necessary materials required for the further prosecution of the mine.
And also all the INTEREST in the LEASES granted to the present company for the
purpose of getting ore under the lands of the Rev. James Glencross, called the AMEROSE LAKE SETT; James Michel, Esq., called the LAMPEN SETT: and Messrs,
Bolitho and Foster, called the HIGHER AND LOWER COOMBE HOUSE SETT.
The large quantity of ore which has been raised during the last 18 months, and the
present healthy appearance of the mine, will be no small inducement to parties desirous
to meet with a promising speculation.
Tenders will be received by Joins Brown, land and mineral agent, Rose Hill, Chesterfield, Derbyshiro.—August 28, 1861.

FESTINIOG, NORTH WALES.—The LEASE of a SLATE PESTINIOG, NORTH WALES.—The LEASE of a SLATEROUSE OF A SLATEROUSE OF THE QUARRY in the above locality is TO BE DISPOSED OF. It includes upwards of SLX HUNDRED ACRES of GROUND, and by three levels of 75, 50, and 30 yards respectively has been PROVED to have FOUR LARGE VEINS of SLATE ROCK of SPLENDID QUALITY and COLOUR. The ground affords unusual facilities for the development of the works, is situate within 1½ mile of the Festiniog and Portmadoc Railway, and is unquestionably a very valuable property. Want of capital is the cause of sale. All applications must be accompanied with a reference to a London bank, or they will not be attended to.—For particulars, apply to WM. DAVIES, Festiniog, via Cayan parvon, North Wales.

NEW COLLIERY, NAILSEA, NEAR BRISTOL. FOR SALE, BY PRIVATE CONTRACT, the WHOLE of the PLANT and ATERIALS at the above colliery, comprising— ONE HIGH PRESSURE DIRECT ACTING PUMPING ENGINE, cylinder 45 in.

ONE HIGH PRESSURE DIRECT ACTING PUMPING ENGINE, cylinder 45 in. in diameter, and 10 ft. stroke.

ONE HIGH PRESSURE WINDING ENGINE and gear, cylinder 12 in. diameter.

ONE HIGH PRESSURE WINDING ENGINE, cylinder 16 in. diameter.

ONE HIGH PRESSURE WINDING ENGINE, cylinder 16 in. diameter.

THREE CYLINDRICAL BOILER, 41 ft. by 6 ft.

ONE CYLINDRICAL BOILER, 18 ft. by 4 ft.

ONE CYLINDRICAL BOILER, 20 ft. by 3 ft. 6 in.

Hammered iron pumping cranks, T bobs, 19 in., 14½ in., 5½ in., 5 in., and 4½ in.

forcing, iffling, and hand pumps; hammered iron straps, double straps and tall joints,
buckets, clacks, wrought-iron cistern, lifting screws, chains, large capstan, double-power

crab winch, 80 fms. 10½ capstan rope, 8 in. capstan and other ropes, blocks, boring tools,

wrought-iron air pipes, tram plates, smiths' bellows and tools, wagons, carte, &c.

To view, apply at the colliery; and for all further particulars, to Boddan Castle, E.

No. 29, Corn-street, Bristol.

TO BE LET, for such a term as may be agreed on, from 25th March next, the LONG BENTON COLLIERY, near Newcastle-on-Tyne, the property of the Hight Hon. the Earl of Carlisle.

At this colliery the High Main Seam has been carefully tubbed off, and the shafts sunk to the Low Main Seam, which is now in working.

The engines, screens, and other stock upon the colliery may be taken at a valuation. Further information can be obtained on application to M. LIDDELL, Esq., Hedgeolds.

Newcastle.—September 2, 1861.

Newcastle, -September 2, 1861.

HORIZONTAL STEAM ENGINES FOR SALE, one each of 14, 17, and 20 in. cylinders, 36 in. stroke, quite new. They are especially adapted for mining purposes, and are very substantially made. Also, several of from 6 to 8 horse power.—Apply to Messra. E. Pace and Co., Engineers, Laurence Pountney-place, Laurence Pountney-hill, Cannon-street, E.C.

CREASE'S PATENT EXCAVATING MACHINERY, for SUPERSEDING the SLOW and EXPENSIVE USE of MANUAL LABOUR in SINKING SHAFTS, DRIVING LEVELS, TUNNELLING, de., can now be supplied to the public. The machinery is guaranteed to drive through any rock of average hardness at a minimum rate of 1 fm. per diem, and to sink shafts at the rate of 2 fms. in three days.

Applications to be addressed to Mr. George T. Curtis (sole agent), 17, Gracechurch, street London, E.C.

treet, London, F.C.

By providing the power of calculating the time and cost to explore a certain depth and extent of ground, speculation in mining will be assimilated to commercial pursuits, with this unmistakable advantage—that when the ground has been once carefully and udiciously solected, and operations properly and systematically carried out for its development, there would be far less chance of unsatisfactory results than are met with y merchants and manufacturers in the usual routine of their business. As this incortant invention must beneficially interest the landowners, nine proprietors, me hantspind miners, we opine it will meet with immediate adoption.—Mining Journal.

E-WARDS'S PATENT MINERAL ORE AND COAL WARDS STATENT MINERAL ORE AND COAL WASHING MACHINE.—This is by far the MOST ECONOMICAL, both in ost and in working, as well as the MOST DURABLE and EFFICIENT MACHINE Complete machine, capable of washing from 25 to 50 tons per diem (according equality), £75.—Full particulars, testimonials, &c., may be obtained from E. EDWARD, isq., C.E., Beaufort-buildings, Strand, London.

Esq., C.E., Beaufort-buildings, Strand, London.

M P O R T A N T T O M I N I N G

SMYTH AND WASLEY'S MACHINERY FOR SPALLING AND

SEPARATING THE ORE FROM THE STONE, &c.

A NEW and USEFUL MACHINE, termed a "PREPARATOR," has recently been patented by Messrs, SNYTH and WASLEY, having for its objects the SPALLING and SEPARATING the ORE FROM THE STONE, and FORMING it into PROPER SIZES for PICKING, JIGGING, CRUSHING, &c., according to the nature and quality of the stuff. The construction is simple, and the machine can be erected in connection with other machinery, as driving-power, for about £15 per hammer. Two, three, fly, or any other number of hammers may be had, as required. Four of from 4 to 5 cwt. The construction is simple, and the machine can be erected in connection with other machinery, as driving-power, for about £15 per hammer. Two, three, fly, or any other number of hammers may be had, as required. Four of from 4 to 5 cwt. The construction is simple, and the machine can be erected in connection with other machiners, the short of the store of the store of the store of the short of the store of the sto

rate the above statement. The charge for patent right will be on the most advantageous terms. The largest mine in the kingdom may exercise its full use at £5 per month, and the charge to be reduced proportionately, according to the magnitude of the works; or the patent may be sold off to each mine, district, or county, as might be agreed on.

For further particulars, apply to Messrs. SNYTH and WASLEY, Coed Mawr Pool Mine, Llanrwat, North Wales. The model may be seen at the offices of GEO. I. SOPER, Esq., 25a, Bucklersbury, E.C., London.

MPORTANT TO ROAD CONTRACTORS.

EFFICIENT AND ECONOMICAL STONE-BREAKING MACHINERY.

A NEW and USEFUL MACHINE has recently been patented by Messrs. SNTTA

ANEW and USEFUL MACHINE has recently been patented by Messrs. SNTTA

ANEW and USEFUL MACHINE has recently been patented by Messrs. SNTTA

ANEW and USEFUL MACHINE has recently been patented by Messrs. SNTTA

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to break 1000 tons of stone per month, and one man and one boy can serve it and also keep it clear.

This machine is well deserving public notice, as it will decidedly effect an economy of 70 per cent. over manual labour, and will prepare the stuff far better than by breaking with ordinary hammers, forming it into proper sizes for coating the roads; the first size being large pieces, to lay over the rough parts; and the second size being small piece, which will form a smooth surface for the carriages, give excellent "bond," and prove far more durable than rough, lumpy stone-roads, which soon become like powder and wash off with rain. There is also material advantage in the dispatch of the work.

Several practical gentlemen who have seen the machinery at work at the Coed Mawr Pool Mines, near Lianrwst, North Wales, can corroborate the above statement. They highly approve of the stuff which was recently broken by this newly-invented machinery and laid over the road.

The charge for the patent right will be on the most advantageous terms, to be paid quarterly; or the right can be sold off to each county or district, as may be agreed upon. For further particulars, apply to Messers. Sutry and Wasser, Cood Mawr Pool Mine. Lianrwst, North Wales. The model may be seen at the offices of Geo. I. Soper, Esq., 25A, Bucklersbury, E.C., London.

WALKER'S STAMPING MACHINES AND STEAM ALREK'S STAMFING MACHINES AND STEAM
ENGINES, for REDUCING ALL KINDS of MINERAL ORES to IMPAL.
PABLE POWDER, have been in use for these last ten years in all the leading mines of
the United Kingdom and the Colonies of the British Empire; as have also his PATENT
PUMPS and WATER LIFTS, and for economy of working and durability cannot be
equalled. MANUFACTORY, 17, COWPER STREET, CITY ROAD, LONDON.

ORNISH BORER STEEL.—Upwards of ONE HUNDRED
AND SIXTY MINES are SUPPLIED with this STEEL, and the DEMAND
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DODDS' IRON AND STEEL PATENT LICENSING COMPANY (LIMITED).

This company is PREPARED to GRANT LICENSES on moderate terms for the USE of their PATENT for STEELING RAILS, POINTS, CROSSINGS, MACHINERY, and EVERY DESCRIPTION of HRONWORK.

The process, which is exceedingly reasonable in cost, and gives the most extraordinary durability to the material, has been highly approved of by the following gentlemen, firms, and companies, several of whom have extensively adopted the valuable improvement:

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tity of rails by this process.
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Applications for Licenses can be made to R. COOKE, Esq., at the company's offic.

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DATENT LEVER BREAK, FOR RAILWAY WAGONS,

doing away with the objectionable break rack. Can be APPLIED to EXISTING STOCK at a TRIFLING EXPENSE. Royalty moderate. Models can be seen at 34, Great George-street, Westminster; and the breaks in action at the works of the Railway Carriage Company; at the Peterboro' Station, on the Eastern Counties Railway; the Rugby Station, London and North-Western Railway; the Cardiff Docks Statios, Taff Vale Railway; and at the Works, Oldbury, near Birmingham, where all communications are requested to be sent.

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This company, having obtained the established business of the late Messrs, Thomas Retigan and Co. on most benificent terms, will be PREPARED to SUPPLY, on and after the late of Seatember:—

tary, at the offices.

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ESTABLISHED 1838.

The business of the Medical, Invalid, and General Life Assurance Society having been malgamated with the Albert Life Assurance Company, the united business will benevith be carried on under the above title.

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Accumulated fund exceeds

Subscribed capital

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Paid-up capital

The new business is now progressing at the rate of more than £25,000 per annum. The new business is now progressing at the rate of more than £25,000 per annum. From Prof. De Morgan's report upon the last valuation of liabilities (end of 1889), and the statements of accounts, it appeared at that time that the surplus in avour of the first statements of accounts, it appeared at that time that the aurplus in avour of the statements of accounts, it appeared at that time that the aurplus in avour of the statements of accounts, it appeared at that time that the aurplus in avour of the statements of accounts, it appeared at that time that the aurplus in avour of the statements of accounts, it appeared at the time that the aurplus in avour of the statements of accounts of the statements of accounts of the statement of the surplus of the statements of accounts of the statement of the surplus of the statement of the surplus of the statements of accounts of the statements of accounts of the statement of the surplus of the statements of accounts of the statement of the surplus of t

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500,000 447,180 137,000 120,000 er annum. of 1858), and favour of the . 11d. I, Actuary.

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MICHOLLS, WILLIAMS, AND CO. have generally a GOOD STOCK of SECOND-HAND MINING MATERIALS FOR SALE, including innuwork for a water-wheel, 40 ft. diameter, 2½ ft. breast. They also MANUFACTURE STEAM ENGINES of every description on the newest principle. Castings and wrought-iron work made at the shortest notice. Machinery sent to all parts of the world. Steam boilers and chains warranted of the best description.

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The grand principle of the gauge being founded upon that sublime law of nature, "GLA-VITI," which, like all other natural laws, is unerring and unchangeable—it must continue to indicate correctly to an indefinite period of time.

After most critical trials and examinations by some of the mest eminent locomotive and stationary engineers, mining and manufacturing companies in this kingdom, it is pronounced by them to be "THE ONLY INDICATING GAUGE NOW IN EXISTENCE,"

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Rio de Janeiro, Messrs. Miers Brothers and Maylor, Engineers.

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PPES.—These PIPES POSSESS all the PROPERTIES NECESSARY for the
CONVEYANCE of GAS and WATER, and also for DRAINAGE PURPOSES.—viz.,
GREAT STRENGTH, GREAT DURABILITY, and PERFECT INOXIDABILITY,
and being non-conductors are not affected by frost, like metal pipes. They are proved
to resist a pressure of 220 libs. on the square inch (equal to 500 ft. head of water), are
only one-fourth the weight, and considerably cheaper than iron pipes. They are made
in 7 ft. lengths, and the joinings are simple and inexpensive. These pipes have been in
use in France. Spain, and Italy nearly three years, whare the demand for them is very
great. The opinions of the press on a public test at the Houses of Parliament, before a
large number of engineers and other scientific gentlemen, may be had, with further particulars, at the office of the company, on application to Mr. ALEX. YOUNG, 14A, Cannonstreet, London, E.C., where sample pipes may be obtained for trial.

BASTIER'S PATENT CHAIN PUMP,
APPARATUS FOR RAISING WATER ECONOMICALLY, ESPECIALLY
APPLICABLE TO ALL KINDS OF MINES, DRAINAGE, WELLS, &c.

J. U. Bastrie begs to call the attention of proprietors of mines, engineers, architects, farmers, and the public noice. The principle of this new pump is simple and effective, and its action is so arranged that accidental breakage is impossible. It occupies less space than any other kind of pump in use, does not interfere with the working of the shafts, and unites lightness with a degree of durability almost imperishable. By means of this hydraulic machine water can be raised economically from wells of any depth; it can be worked either by steam-nagine or any other motive power, by quick or slow motion. The following statement presents some of the results obtained by this hydraulic machine, as daily demonstrated by use:—

worked either by steam-engine or any the following statement presents some of the results obtained by this hydraulic machine, as daily demonstrated by use:—

1.—It utilises from 90 to 92 per cent. of the motive power.

2.—Its price and expense of installation is 75 per cent. less than the usual pumps employed for mining purposes.

3.—It occupies a very small space.

4.—It raises water from any depth with the same facility and economy.

5.—It raises with the water, and without the slightest injury to the apparatus sand mud, wood, stone, and every object of a smaller diameter than its tube.

6.—It is easily removed, and requires no cleaning or attention.

A mining pump can be seen daily at work, at Wheal Concord Mine, South Sydenham, Devon, near Tavistock; and a shipping pump at Woodside Graving Dock Company (Limited), Birkenhead, near Liverpool.

J. U. Bartier, sole manufacturer, will CONTRACT to ERECT his PATENT PUMP at HIS OWN EXPENSE, and will GUARANTEE IT FOR ONE YEAR, or will GHANT LICENSES to manufacturers, mining proprietors and others, for the USP of his INVENTION.

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The SILVER PLATE DEPARTMENT is in the gallery of the building, and consists of every article requisite for the table and sideboard.

In the magnificent show-rooms is displayed a large and beautiful stock of ARGENTINE PLATE, the manufacture of which has stood the test of 20 years' experience.

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EATHING FROM

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**a* Passengers holding Victoria passage warrants will be forwarded to Melbourne by
these vessels.

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Ma. MURCHISON publishes a QUARTERLY REVIEW OF BRITISH MINING, giving at the same time the POSITION and PROSPECTS of the MINES at the end of each Quarter, the DIVIDEEDS PAID, &c.; price one Shilling. RELIABLE INFORMATION and ADVICE will at any time be given by Mr. MURCHISON, either personally or by letter, at his Offices, No. 117, BISHOPS GATE-STREET WITHIN, LONDON, where copies of the above publication can be obtained.

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placed, for a small sum, within the reach of all persons contemplating making investments in mining shares that information which should prevent rash speculation and unproductive outlay of capital in mines.—Morning Heraid.

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Parties requiring information on mining investments will find no better and safer into the subject of which it treats.—Devy Telegraph.
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This is really a practical work for the capitalist.—Stockport Advertiser.
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MANUFACTURERS OF PATENT LAF-WELDED IRON TUBES, FOR
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Wardsend Steel Works,
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AT COLLIERIES UTILISED FOR GAS PURPOSES.
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COALS.—GEORGE J. COCKERELL AND COCAL Merchants to Her Majesty. Cash, 25s. per ton. Best coals only.

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TO COAL OWNERS AND COKE BURNERS. MACKWORTH'S PATENT COAL WASHER,
OR PURIFIER.—This MACHINE will EXTRACT the SHALE and ALL
HEAVY IMPURITIES from SMAIL COAL at a COST of TWOPENCE PER TON
—For particulars and references, apply to the makers, A. and T. FRY, Temple-gate Works
Bristol; or to Mr. Jos. Rider, Easinghall-street, Leeds.

WIRE-ROPE TESTING.

PUBLIC TEST of A. J. HUTCHINGS AND CO.'S PATENT WIRE-ROPE at LIVERPOOL, FEBRUARY 27, 1861.

From the Daily Post of March 1, 1861.

On Wednesday, the 27th of February, a series of EXPERIMENTS on WIRE-ROPE took place at the Corporation Testing Works, King's Dock. The specimens tested were manufactured by the well-known firm of A. J. HUTCHINGS and Co., of Millwall, London, the Contractor to the Lords of the Admiralty and various foreign Governments, the character of whose rope is so well known in this country, as well as all parts of the Continent. Capt. Ducraft, of H.M.S. Hastings, and a number of other gentlemen connected with shipping, were present to witness the experiments, all of which were considered highly satisfactory, and in every respect sustained the reputation of the manufacturers. The following are the results of the experiments:—

An 8 in. rope bere 70 tons WITHOUT BREAKING.

Circumference and breaking strain.

24/2 3/3 3/4 3/3/4 3/3/4 10/3/4

utchings and Co.'s wire-rope for ships' rigging. Tested Feb. 27, 1861. Test of Oct. 29, 1860. Test, Oct. 29, 1860.

5 tons 15 cwts.
11 " 14 "
16 " 10 "
22 " 8 "
23 " 10 "
29 " 10 "
37 " 15 " 18 " 5 " 26 .. 10 ..

N.B.—The 2, 3%, and 4 in. ropes were the actual sizes tested. The remaining sizes and strains are comparative.

The above tests certified by Mr. M'Donald the Superintendent of the Corporation Testing Works, Liverpool.

HEMP AND WIRE-ROPES

JOHN STEPHENS AND SON, HEMP AND WIRE-ROPE WORKS, ASHFIELD, FALMOUTH, CORNWALL, MANUFACTURERS OF FLAT and ROUND HEMP and WIRE-ROPES, GUIDE RODS for SHAFTS, GALVANISED WIRE SIGNAL LINE and STRAND FENCING, &c., for MINES, RAILWAYS, &c. A first-class medal was awarded to John Stephens and Son for their manufacture, by the Royal Cornwall Polytechnic Society, in 1860.

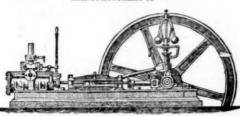
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Mares 4000	Moral Tritted (conner) Taylatockt 2 68. 5 414 5 12 70. 0 8 6-June, 186
240	neces (tin), St. Just
200	Mallack (tin, copper), St. Just 91 5 0 210
1000	on Brea (copper, tin), Hiogant 15 0 0 68 65 70 269 10 0 2 0 0-Feb. 186
2048	rnvorth (tin), St. Just 3 10 0 1% 0 19 6 0 2 6 - Sept. 100
200	fn Cwm Brwyno (lead), Cardigansh. 33 00 33 9 00 4 0 0—April, 186
0000	nnorree (copper, sulphur) FL. £11 1 0 0 37s 134 0 0 9 0 0 9 July, 186 ok's Kitchen (copper), Illogan 17 0 9 29 30 31 0 13 0 0 5 0—Sept. 186
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12000 350000	The leave well and the state of
	Ditto ditto (stock) 100 0 0 24 1 per cent Hall-yright addock Moor (copper), St. Cleer* 8 0 0 26 5 13 0 0 5 0—July, 186
667	wm Erfin (lead) Cardiganshire 7 10 0 161/2 5 8 0 1 0 0-June, 186
198	227 10 9. 5 0 0-May, 186
280	rwent Mines (sil. lead), Durham 300 0 0 180 142 0 0 5 0 6-June, 186
1024	oven Gt. Con. (cop.), Tavist.* [S.E.] 1 0 0 355 350 360 760 0 0 7 0 0-July, 186
258	decath (copper, tin), Camborne*128 17 6 510 633 10 0 7 0 0-Aug. 186
512	ret Passet (con) Pedenth (S.E. 19 99 10 0 7714 80 85 as 87 0 0 5 0 0 10 1v. 186
6144	ust Caradon (copper), St. Cleer [S.E.] 2 14 6. 26 27 1/4 28 1/4 0 17 6. 0 10 0-July, 186
300	st Darren (lead), Cardiganshire 37 0 0 67 77 10 0 1 0 0-Aug. 186
2048	at Wheal Loyell (tin), Wendron 2 10 0
1400	ram Mining Co. (lead), Derbyshire., 5 0 0 20 3 4 0 10 0-May, 100
4940	wey Consols (copper), Tywardreath 4 0 0
2040	whale, isle of Man, Limited (lead) 20 0 0. as
6000	7 12 R A FA Pah 186
1700	reat Wheal Fortune, Breage 18 6 0 1214 1214 13 1 0 0 0 10 0—July, 186
5008	west Wh. Vor (tin. cn.). Helston [S.E.] 40 00 6 6 0 50 0 50 0 50 186
1024	modefront (1d) near Linkeard [S.E.] S 10 0 28 34 35 14 10 0 2 0 0June, 186
1000	hernian Mine Company
160	want (copper, tin), St. Just 2 10 0 95
400	shurne (lead), Cardiganshire, Wales* 18 15 0., 125 375 10 0., 2 0 0-Aug. 186
9000	arke Valley (copper), Caradon 4 10 6 1014 10 1014 1 1 0 0 5 0-July, 186
0000	endin Hills (lead) [L.], Somerset 3 15 0 14 2 1 0 0 2 6-May, 186
1800	inera Mining Co.[L.], (id.), Wrexham 25 0 0 180 75 0 9 4 0 0—Aug. 186
1000	ining Co. of Ireland (con., lead, coni) / UU., 14 14% 14% 14 / 11. U / U June, 180
640	ount Pleasant, Mold 4 0 0 25 14 7 7 0 10 0-Sept. 186
6000	ww Birch Tor and Vitifer Consols 1 6 6 2 0 3 6 0 1 0—Sept. 186
6000	of the Downing (copper) recurrently and a series of the party of the p
1366	
6000	
5000	r Consols (cop.), St. Blazey [S.E.]. 1 2 6 10 9 10 36 4 6 0 8 0—July, 186
900	rys Mines (copper), Anglesey [L.]. 50 00 — 7 10 0 2 10 0—April, 186
900	menix (copper, tin), Linkinghorne 100 0 0 435 449 10 0 55 0 0 May, 186
1772	dherro (tin), St. Agnes
1120	ovidence (tin), Unv Lelantt [S.E.]., 10 6 7., 374., 38 40 ., 60 15 0., 1 0 0-Aug. 186
16	1250 0 0. 100 0 0-
E10	mth Carndon (com) St. Cleor* IS.E. 1 1 5 0 305 395 305 351 0 0 5 0 0July. 186
512	outh Tolgus (cop.), Redruth, Cornwall® 8 0 0 40 102 10 0 1 0 0—April, 186
496	
	pearne Moor (tin, copper), St. Just 31 17 9 45 9 15 0 1 0 0-June, 186
940	Tves Consols (tin), St. Ivest 8 0 0 31 30 31 484 0 0 0 15 0 -May, 186 31 136 136 5 6 0 0 2 6 -Jan. 186
9600	mar Con. (silid.), Beeralston [S.E.] 4 10 0. 14 14 14 . 5 6 0. 0 2 6—Jan. 196 neroft (cop., tin), Pool, Illogan [S.E.] 9 0 0. 5%. 5% 6% . 10 8 6. 0 5 0—Feb. 186
6000	Innar Con. (1111) Red Innar (S.E.) 9 0 0
6000	olvadden (copper), Marazion 214 0 13 6 0 3 0—Mar. 186 relyon Consols (tin), St. Ives 11 10 0 1214 14 16 7 0 0 0 10 0—Sept. 186
572 200	compact Consols (tin), near Helston 57 10 0 100 52 0 0 2 0 0 May, 186
1024	endron Consols (tin), Wendron 11 13 10. 19 8 15 0 1 0 0-Jan. 186
6000	cat Resset (copper), Illogan [S.E.], 1 10 0., 18 ., 16 17 ., 21 15 0., 0 5 0-July, 186
60	est Burton Gill (lead), Yorkshire 50 0 0 14 10 0 3 0 0 - June, 186
1024	Cast Caradon (con.), Liskeard [S.E.]* 5 0 0 3914 37 38 98 1 3 1 10 0-July, 186
256	'est Damsel (copper), Gwennap 37 0 0 55 45 0 0 1 0 0-May, 186
6400	
400	Wh. Seton (cop.), Camborne [S.E.] 47 10 0., 325 322 \6327 \6 315 0 0., 7 0 0-Aug. 136
512	heal Rasset (copper), Hiogan* [S.E.] 5 2 6 8746 572 10 0 2 0 0—Aug. 186
256	heal Ruller (cop.), Regruth*[S.E.]. 5 0 0., 95 90 95 929 0 0., 2 0 0-May, 186
2900	h. Clifford Amalgamated(cp.), Gwen 30 0 0 — 16 0 0 — — Aug. 186
2000	
128	
	Theal Jane (silver-lead), Kea 3 10 0 18 10 10 0 1 0 0 Feb. 186 Theal Kitty (tin), Uny Lelant [S.E.] 1 7 2 11 8 0 0 0 10 0 Sept. 186
1024	Theal Kitty (tin), Uny Lelant [S.E.] 1 7 2 11 8 0 0 0 10 0—Sept. 186 (heal Ludcott (lead), St. Ive 2 10 8 336 3 36 1 8 0 0 4 0—July, 186
	12 Manuscraf (Alm) Timer Lot Ed 12 14 0 17 0 40 41 40 60 0 0 1 0 0 Aug 186
100	heal Mary (tin), Lelant 36 2 6., 440 280 5 0 7 0 0—June, 186
9.004	77 - 4 (14) 36 1-450 Ti 34 D D D 30 D 30 D 30 TO 17 D D 10 D 70 mg 100
1024	Theal Owles, St. Just, Cornwall 70 00 300 280 13 0 5 0 0—Aug. 186
	10 and 10
80	'icklow (copper) [L.], Wicklow 5 0 0 5814 59 41 17 6 2 12 6-Mar. 186

	MINES	WITH D	IV	IDE	NDS	I	N A	BEY	A	NCI	C.		
700	Aberdovey (silver-lead	d), Merioneth	1	10 0	30 .			(10	0 (10	0-Mar.	1859
F190	Alfred Consols (cop.), l	Phillack [S.E.].	2		1 .	. a		20	3	0 (2	6-April	1859
1694	Balleswidden (tin), St	Just	11	5 0			• -	15				0-Jan.	1854
1900	Brightside & Froggatt	Grove, Derbysh.	3					1				0-April	
	Brynford Hall (lead), I						23	1				0-Oct.	1860
	Central Minera (lead)			15 0								0-Sept.	1859
	Charlotte United, Perr			3 2			. 24s.					6-Sept.	1859
	Collacombe (copper), I			5 0	19			!				0-Dec.	1857
	Condurrow(cop., tin),			0 0	00			8/				0-June.	
	Copper Hill (copper) I						41171/					0-Sept.	1859
	Devon and Cornwall (6-Feb.	1859
	Ding Dong (tin), Guly				19 .	-						0-Mar.	1857
	Drake Walls (tin, cop)						. 20s.					0-Sept.	1857
	East Falmouth (silld				72.		. 204.	(6-Jan.	1858
	East Pool (tin, copper)							30				0-Aug.	1858
	General Mining Co. for				51%.		55%	1				3-June.	
	Grambler and St. Aub						-/6	2				0-July,	
	Great Work (tin), Ger				210							0-Feb.	1857
	Herward United (lead				90	-						0-July,	
	Hingston Down Con. (c					. 9	334					6-Nov.	1856
	Kelly Bray (lead, copp						1					0-Feb.	1860
	Laxey Mining Compar							142		056		0-June,	
	Newtownards Mining			0 0		-		. 50		0 1		0-Sept.	1858
	North Roskear (copper			0 0	17 :	•		15				0—Sept.	
	Rosewarne and Heriar			8 10.	. %							0-Oct.	1859
	Rosewarne United (co			6 4	21%	•				0 1		0-Sept.	1860
	Sortridge Con. (cop.), W				128.	10-	10=			0 (6-July.	
	South Crinnis (copper				004			-		020		0-June,	
	St. Day United (tin an											0—Feb.	1858
	Vale of Towy (lead), Ca							7				0-July	
	West Providence (tin)				334.			-				0-April	
	Wheal Bal (tin), St. J				16					0 1		0-Feb.	1859
4096	Wheal Edward (cop.)	Calstock [S.E.]	7	7 8	214		36			0 (0-Mar.	
1094	Wheal Grylls (tin), Po	erranuthnoe	1	4 0			78			0 (6-Nov.	
#000	Wheal Kitty (tin), St	Agnos	1	16 6	34.							0-July.	
	Wheal Lovel (tin), W							-	- 6	0	1	0-Sept.	1854
	Wheal Margery (tin,					••		8	10	0	10	0-Sept.	1860
	Wheal Seton (tin, cop				00	75	80					0—Dec.	1859
1040	Wh.Trelawny(silid.	Linkeardis E	8	17 0	14		00					0-Oct.	1860
1099	Wheal Tremayne (tin.	con) Gwirear	12	9 6	5							6-Jan.	1854
4096	Wheal Wrey Consols	(lead) St Ive	9	9 0		••				6		6-Dec.	1857
#000	Tribut Triby Collects	(round) into TAB.	0	0 V	%-							0 -Dec.	100

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2464	Burra Burra (cop.), South Australia, 5	0 0	135		 265	0 0	5	0 0-June, 186	51
12000	Cobre Copper Co. (cop.), Cuba [S.E.] 40	0 0	37	35 37	 97	12 0	1 (0 0-July, 186	11
10000	Copiapo Mining Company, Chili [S.E.] 16	0 0	8		 6	8 0	0	5 0-Jan. 186	31
15000	East Indian Coal, Calcutta [L.] 10	0 0	10					- Yearly.	
70000	English and Australian [S.E.] 5	0 0	314					2 6-Aug. 186	
25000	Gen. Mining Assoc., Nova Scotia[S.E.]20	0 0	24		 18	5 0	1	0 0-June, 186	31
68000	Kapunda Mining Co., Australia [S.E.] 1	0 0	234		 0	8 0	0	2 0-June, 180	31
15000	Linares (id.), Pozo Ancho, Spain [S.E.] 3	0 0	756		 8	6 2	0 :	3 4-July, 186	31
10000	Lusitanian (of Portugal) [S.E.] 2	0 0	2					1 6-Aug. 186	
103815	Mariquita and New Granada [S.E.] 1	0 0	14		 0	9 6	0	1 6-July, 188	59
100000	Port Phillip (gold), Clunes [S.E.] 1	0 0	132	1				1 0-July, 186	
11000	St. John del Rey [L.], Brazil [S.E.]. 15	0 0	3614	38 39	 43	5 0	2 1	0 0-Jane, 186	31
20000	West Canada Mining Company [L.] 1	0 0	1%		 0	2 0	0	2 0-June, 186	50

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10000 Alten and QuænangenUnl.(cop.)[L.£5] 4 10 0 3	. 4 5 0 0 15 0-Nov. 1858
10000 Gt. Barrier Land, Min., &c., N. Ze. [L.£5] 4 5 0. 314	15 per centMay, 1859
10000 Pontgibaud (sillead), France [S.E.] 20 0 0 4	1 0 0 1 0 0-June, 1858
43174 Unit. Mexican(sil.), Mexico[S.E.]Av. 28 5 0 514	5 514 1 16 6 0 4 0-Feb. 1853

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	Shares. Mines.	Paid	1	ast Pr	. Ru	a. dos	e. Last Call	2.
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	75000 Bon Accord, South Australia (copper) [L. £1] [S.E.]	0 17 (1(2			Dec. 186	
	6000 Central American (silver) [L.]	5 0 0		814			Feb. 185	
	17000 Central Italian (copper) [7000 £2 paid]	0 6		0/2			Jan. 185	
	60000 Clarendon Consols (copper), Jamaica [S.E.]	0 17		34			.Jan. 186	
	10000 Copiapo Smelting [L.], Chili	10 0					Fully paid	
	75000 Dun Mountain (copper), New Zealand [L.] [S.E.]	1 0 4		178		34 1		
	30000 East Kongsberg Native Silver Mining Co. of Norway [L. £5]	1 00		34		76 -	April, 186	
	30000 Ellerslie and Bardowie, Jamaica	0 18		112	••		July, 185	
	8000 English and Canadian Mining Company [L.]	5 0 6		-78	••		Fully paid	
	25000 Fortuna (lead), Spain II, 178 F 1			012			Fully paid	
	80000 Great Northern (copper), South Australia [L. £2] [S.E.]	1 00		112	13	4 114	see any pass	"
	4000 Hope Silver-Lead and Copper Mining Co. [L.], Jamaica	95 0 6		- 78	***7	8 478	Fully paid	ы
	50000 Imperial Thessalian (lead, &c.), Thessaly [L. £2]	0 10		*	**	-	June, 186	
	30000 Lagunazo (sulphur, copper), Portugal [L. £1]	0 10 (12	••		May, 186	
	60000 New Granada (gold), South America [S.E.]	1 0 6		12	••		Fully paid	
	10000 New Grand Duchy of Baden (silver-lead), near Freiburg	1 00		170	••		Nov. 185	
	60000 North Rhine Copper of South Australia [L. £1] [S.E.]	0 19 4	***	36			June, 186	
١	15000 Pachuca Silver Mining Company, Mexico [L. £1]	0 10 (112	• •		April, 186	
	80000 Scottish Australian Mining Company [L. £1]	0 10 (- 22	**		Nov. 185	
	15000 South Europe Mining Company, Spain [L. £5]	2 0		78	••		May, 186	
	50000 St. John's United (copper, lead), Newfoundland [L. £1]	0 10		84	••		Mar. 186	
	45000 Victor Emanuel, Italy [L.] [20,000 Pref. Shares, 5s. pd., 25,00	00 41 -1		10	••			1
	1000 Western Africa Malachite (copper) [L.]	110 0 0		178	••		Oct. 185	0
	12000 Wheat Ellen, South Australia [L. £5]	4 0 0	***	93/	••		.July, 186	
	35425 Wheal Jamaica (copper)	1 00	***	100	••		Fully paid	
	80000 Worthing (copper), South Anatralia ff. 1 fg. P. 1	1 00	**	3/	••		Fully paid	

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861 861	4000 Allt-y-Maen (lead) [L. £1]. 0 5 0., 128 July, 1889 10000 Angarrack (copper), Phillack. 1 1 6., 136 June, 1889 1000 Ashburton United (cop., tin) 11 10 0., 144	1024 North Wheal Busy (cop., &c.) 8 17 7. 4
860 861 860	10000 Bampfylde (copper), Devon. 0 15 0 4 Aug. 1860 4000 Bedford Consols (copper). 1 19 6 4s 2s. 4s July, 1881 2000 Berebaven (copper), Iraland. 1 0 0 114 7500 Bickleigh Vale Pheenix [L.]. 2 0 0 234 Fully paid.	1122 North Wheal Crofty [8, E]. 9 14 0. 6\frac{1}{2} \), \(\text{May}, \) 181 400 \(\text{N.W. Exmouth (cop. lead)} \) 2 \(70 \) -
861 860 861	10000 Borlase Con. (tin).St. Justft. 1 0 0 134 Full maid.	4000 N. Wrey (ld.), St. Ive [L.£2]. 0 12 0 1 4 July. 180
riy. rly. 861	2280 Boscumdle (tin,cp.),St. Austell 6 15 0 8	800 Pant-y-Buarth (ld.) [L. £10]. 6 0 0 20 Mar 120
861 861 861	123 Bosweddan and Wheal Castle 32 0 0 — Nov. 1838 5000 Bosworthan (tln), Sancreed. 1 0 0. 1 1 June, 1860 5000 Bottle Hill (tln), Plympton. 1 0 0. 1	200 Paint-y-Pwyda(id.), Filintainre 10 0 0 20
861 861 861	12000 Frea Con.(tin),8t.Ives[L.30s.] 1 0 0., 22s ,Jan. 1861 5000 Bronfloyd(ld.),Cardigan.[L.] 2 0 0., 4¼ ,June, 1861 112 Bron-Haulog(ld.),Denbighsh, 20 0 0., 20 ,No call	12000 Peneraig United (id.) [L. £1]. 0 5 0
861 861 859	4000 Brookwood	800 Penhali Moor (tin, copper) . 4 0 0 . 5
861 860 860	2000 Bryntall, Llanidloes, Montgo. 5 7 0. 4 Aug. 1861 5950 Budnick Consols (tin), Perran 1 2 0. ½. June, 1861 6880 Buller and Basset Unit. (cop.) 3 5 0. 1½. June, 1861	6000 Penralt Bead), Merioneth . 2 0 0 . 24
861 861 861	2448 Bwife (silid), Cardiganshire 4 9 0 224 Nov. 1860 4096 Caistock Consols (copper) 51 0 0 68 Dec. 1860 915 Caivadnack, Wendron 18 5 0 7 8½ 9 Mar. 1861	6000 Pollstey Moor (tin), Wendron 1 0 0. 14
861 861	1000 Camborne Consols (copper). 16 10 0. 8 June, 1861 4600 Camborne Vean & Wh. Francis 7 12 4. 2½. 1% 2½ July, 1861 914 Caradon Cons. (cop.), 8t. Cleer 21 12 0. 8½. June, 1861	6000 Prosper Uni. (tin,cp.),St. Hilary 2 0 0. 1% July, 1801
861 861	1000 Cardigan Consols [L. £10] 7 0 0 9 Mar. 1861 916 Cargoll (silver-lead), Newlyn 15 5 7 14 14 15 Sept. 1860 6000 Carn Camborne 0 7 0 136 114 13 May, 1861	6000 Releath (tin, cop.), Crowan 1 0 0. 24 Oct. 1860 2500 Rhoswydol and Bachelddon 12 0 0 74
860 861 861	6000 Carn Camborne	3000 Rhyscog (silver-lead) [L. £5] 1 0 0 . 1
861 861 861	1056 Carvannall (cop.), Gwennap. 21 11 7. 3 Dec. 1880 10000 Carway and Duffryn [L.]. 5 0 5. Fully paid. 20000 Carysfort (cop., Id.) [L.£2]4] 0 10 0.88.64. Mar. 1859	4096 Rosewarne Consols (copper) 3 5 0 5 Aug. 1861 5000 Round Hill (cop., ld.), Salop 2 5 6 46 Mer. 1861
861 860 861	25000 Casara (lead), Carmā. [L.£] 0 8 0., 12s	10000 Sigford Con. (cop.,tin)[L.£1] 0 13 0 1 July, 1861 5000 Silver Bank (silid.) [L.£1] 0 15 0 34 Oct 1875
861 861 861	5000 Clinton and Edgecombe United 1 0 0 1% Oct. 1860	15000 Sllv.Vein, St. Winnow [L.£1] 0 5 0 21/4 April, 1860 6000 Smith's Wood (tin,cp.) [L.£2] 1 2 0 2 June, 1861
861 861	2560 Colomendy (lead), near Mold. 1 0 0 21s No call. 5000 Cornubia (tin), Roche 0 15 0 1 April, 1861	100 South Bryn Gwieg
861 861 861	908 Crane (copper), Camborne 8 0 0 6½	6000 So. Carn Brea (cop.) [S.E.] 5 5 0 2% 2% 3July, 1861 6138 S.Condurrow (tip.co.). Camb. 1 19 0 118
1861 1861 1861	8000 Crookhaven (cop.) [L. £2½] 1 0 0 ½	65000 South Darren (id.) [L.£3]%] 2 7 6. 1½ May, 1861 65000 S.Dev. Iron & Gen. Min. [L.£1][S.E.]. % Fully paid. 1024 South Ding Bong. Gulval 0 10 0 34
861 860 860	6000 Cuddra (cop., tin), St. Austell 2 4 0. 1%Aug. 1861 7000 Cwm Afon (cp.), Festi. [L.£1] 0 19 0	6000 S.Dolcoath & Carnarthen Con. 2 4 0 . 4 June, 1861 6000 South Gernick (tin), Crowan. 0 2 6
861 861 861 861	4817 Devon and Courtenay (cop.) 1 9 0 11s	4000 South Minera [L. £5\[\] 2 2 0 4 July 1981
861 860 861	12000 Devon Union (copper) [L.£1] 0 12 6. 34	1024 South Tresavean, Gwennap. 211 6. 14. July, 1851 4096 S.Wh. Betsy, Mary Tavy, Dv. 1 4 6. 1 . July, 1851
1861 1861	2000 Dolcoath United [L.£5] 1 0 0. 2¾	1105 So.Wh. Crofty (cop.), Illogan 2 18 10. 4
1861 1861	4096 East Aifred Consols (copper). 3 16 8., 31s	6000 S.Wh.Margaret(tin),Ludgvan 0 3 0
1860 1860 1861	6000 East Budnick and Mount . 0 10 0 . 9s	1024 St. Ives Wheal Allen (tin) 6 0 0 6 5 6 fuls 1981
1861 1860 1861	4000 East Devon Gt. Consols (cop.) 0 11 6. 22 4 June, 1861 4000 East Fowey (cop.) [L. 50s.] 1 5 0 1 1/4	1000 Stencoose and Mawin (tin.cp.) 2 10 0. 2 July, 1861 920 Stray Park (cop., tin) [S.E.]. 26 15 0 2714 27 29 July, 1861 5000 Tavy Con. (cop.), near Tavis. 5 12 6 14 June, 1861
1861	4000 E.Gunnis Lake & Bedf.(cp.) 5 9 6. 34. 36 36 Mar. 1861 12000 East Mona (cop., &c.) [L.£1] 0 5 0. —	3000 Tees Side (id.), Camb. [L.£1] 0 13 0
	4096 E. Providence (tin), Uny Lol. 2 8 5. 1½ June. 1861 6000 E. Releath (tin,cop.), Wendron 0 1 0. 1 . Aug. 1860 5000 E. Rosewarne (ep.,tin), Gwin. 2 10 0. 1½ . 1½ . May. 1860	2000 Tremlack Uni. (tin.), St. Enoder 2 10 0. 3 Jaly, 1861
1859 1859 1854	1122 East Seton, Camborne 0 2 0	1024 Trencrom (tin), Uny Lelant. 10 5 0. %
1856 1860 1859 1859	1190 E.Wheal Agar (cop.), St. Cleer 8 7 0 2 July, 1861	5600 Trevenen and Tremenheere . 5 13 0
1857 1857 1859	4000 E. Wh. Russell, Tavis. [S.E.] 7 4 0. 3½.3½ 3¾ .Nov. 1859 5700 Exmouth (silid.), Christow. 5 14 0. 1½. July, 1861 6000 Fowey and Par Unl., St. Blazey 0 10 0. 1½Nov. 1860 5000 Fursdon(cp.), Okeham. [L.30s.] 1 5 0. 2½Aug. 1860	2048 Treworlis, Wendron 3 6 4 . 2
1859 1857 1857	6000 Furze Hill Wood Cons., Buckl. 0 5 0 14s June, 1861 114 Garden (tin), Mervah 22 0 0 24 June, 1861	1024 Tyringham Consols (tin) 1 10 0 234 Feb. 186 5000 United Mines (ep., &c.), Tav. 4 9 6 1½1½ 134 May, 183 1250 Valo of Ffrith (lead) [L. 42]. 0 5 0 1½
1858 1858 1853	6000 Gernick (copper), Crowan 0 10 0 1 June, 1861	1000 Waenias(id.), Denbigh, [L. £10] 8 0 0 5
1860 1857 1860	4892 Goginan (silvld.) [1900.£12½, 2992.£1] 2	1024 W. Alfred (copper), Phillack. 36 16 5 100 W. Bryn Gwleg (ld.) [L. £20] 5 0 0 30 Jan. 186 1218 W. Condurrow (tin,cop.), Cam. 4 17 2 5 July, 184
1856 1860 1857	5000 Great Briggan	16 West Denbigh (id.), Denbigh. 35 0 0 50
1858 1853 1859	10000 Great Moclewyn Slate [L. £5] 1 10 0 —	25000 West Par Con. (cp.) St. Blazey 1 8 6. 34
1860 1857 1855 1858	7000 Gr. Treguncon. [40,002£4, 7000 £4 pd.] — Aug. 1861 6000 Great Treveddoe (copper) . 0 14 0. 4 Aug. 1861 6000 Gr. Tywarnhaile (cp.), [L. £5] 3 0 0. 3 Jan. 1861	5000 W. Snailbeach (lead) [L. £2] 1 0 0 1¼
1858 1857 1859	6000 Gt. Wh. Busy (con. tin). Ken. 13 0 0 54 43 54 Mar. 1861	1056 WestStray Park(cop.), Camb. 7 15 0 443¾ 4¼ April, 18 5000 West Tolcarne (cop.), Crowan 1 11 6 9 April, 18 512 West Tolcare (cop.), Redruth. 18 0 0
1858 1859 1860	10240 Gunnis Lake (Clitters' Adit). 0 2 0 3\(\frac{1}{2}\)	4000 West Wendron (tin), Wendron 0 13 0 13s
1856 1860 1859	6400 Harwood (id.), Durham[L.£1] 0 3 6 36 July, 1861 7219 Hawkmoor(tin,cop.) Calstock 2 17 6 1	1024 West Wheal Lovell, Wendron. 2 0 0 1
1860 1854 1857	6000 Huckworthy Bridge (copper). 0 18 0. 34. July, 1861 40 Imperial Silver-Lead, Dolgeliy 25 0 0. 30	2048 Wh. Agnes (silvid), St. Kew — 2
1961	8000 Lady Eliza (ld.), Carm. [L. £3] 2 8 0 34 June, 1861 1019 Leeds & St. Aubyn (tin, cop.) 15 12 3 4 Mar. 1861 963 Lelant Cons. (tin), Uny Lelant 32 10 0 24 Mar. 1861	5990 Wh. Arthur (cop.), Calstock. 3 11 0 8s % 1/4June, 18 1000 Wheal Basset and Grylls (tin) 4 0 0 81/4Mar. 18
1861 1861 1861 lv.	1000 Llanfair (silver-lead) [L.] 6 0 0 5 Fully paid. 8000 Llywernog United, Card, [L.] 1 16 0 14 July, 1855	3000 Wheal Conquer (tin, copper). 1 0 0 1½ Sept. 18 6000 Wheal Crebor (cop.), Tavistock 0 15 0 12s 9s. 11s May, 18
1861 1861 1861	2000 Lower Park Denbighshire [L.] 4 0 0 — 4968 Maudiin Mines [2484 £6, 2484 £1 pd.]. 214	512 Wh.Damsel(cp.,tin),Gwennap 23 18 6. 15
1861 1861 1859	22000 Merryfield (lead) [L.] 0 12 0., 4s 3s. 4sMay, 1866 3400 Michell (lead), Flint 0 1 0., 9sJune, 1861 1024 Mill Pool (tin,cop.) St. Hilary 15 9 6., 1Aug, 1859	6120 Wheal Harriett, Camborne. 4 0 0. 14. 14. Sept. 1 6000 Wh. Harris (id., cop.), Lifton 0 10 6. 1
1861 1861 1860	16000 Mold (lead), Flints. [L. £1] . 0 17 0. %Jan. 1866 6411 Molland (cop.), S. Moulton. 2 8 0. 2sJuly, 1861 5000 Nance Valley	1 1024 Wheal Hearle, St. Just 8 2 8 12½ June, 1 2048 Wheal Hope (slild.), Perran 0 12 6 1½ 1 1½ Aug. 1 1 10000 Wh. Lopes (tin, zinc) [L.£1]. 0 10 0
1853	1024 Nanglies (tin, copper), Kea. 3 0 0 . 6	5000 When! Nelson
1853 1859 1855 1853	6400 Nether Heath (lead), Dufton. 0 15 6. 4	5000 Wheal Neison
	6144 New Wheal Francis, Crowan. 0 16 6. 2. 7s. 9sMay, 1861 1024 New Wheal Hender, Crowan. 2 10 0 3June, 1861	1000 Wh. Prosper (cp., tin), Breage 9 0 0 3
Call. 1858 1860	400 New Wh. Seton (cop.), Camb. 13 10 0 46 40 45May, 1861 2300 New Wh. Vor & E. Wh. Metal 9 0 0 —July, 1861 2048 N.Wh. Vaddon (cop.), Marazion 0 19 6 144Aug. 1861	600 Wheal Rose (ld.), St. Columb 1 0 0 . 6 No call. 1024 Wh. Sicily (silid.), Broadcak 2 10 0 . 3 April, 1 4096 Wheal Sidney (tin), Plympton 3 9 1 . 134 July, 1
1859 1859 1861	6000 Nidderdale(id.),Yorks.[L.£1] 0 15 0. 34 Jan. 1861 90 N. Budnick (tin,ld.), Perranz. 1 10 0. 40 No call. 4500 No. Budnick and West Mount 0 5 0 34	9048 Wh.Sithney & Carnmeal Uni. 5 0 0 3July. 1024 Wheal St. Andrew (copper) 8 0 0 5Jan. 512 Wheal Trannack, Sithney 9 10 0June.
paid. paid. 1861	1024 North Buller (cop.), Redruth. 20 17 6 5 4\(\) 5 . Ang. 1861 6000 Nor. Clifford (cop.), Gwennap 0 5 0 \(\) 5 Nov. 1862 (20000 North Devon (silid.) [L. £1] 0 7 0 \(\) 5 April, 1861 8000 N. Delevath (cop. Copressor 2, 4,6	6000 Wheal Union (con.) Redwish 3 4 0 . 2 Aug.
1859 paid. paid.	20000 North Devon (silid.) [L. £1] 0 70. 4	4096 Wh. Uny (tin, cop.), Redruth 8 1 6., 4 . 3½ 4 . June, 1024 Wheal Vyvyan (copper) 0 10 0
paid. 1860 1861	2500 North Frances, (cop.) [8, E.]. 13 5 0 . 4 . 334 434 . June, 1861 2000 N. Hallenbeagle (tin, cp.) [L.] 0 10 0 . 114	5000 Willow Bank (isad) [L. £2]. 1 14 0. 4s April. 1024 Worvas Downs (tin), Lelant. 3 15 0. 4 Juns, 1 4096 Wrey Consols, Buckfastleigh. 0 8 0. 34
paid. 1858 1860	10000 North Minera (lead) [L.] 1 0 0., 29s., 27s. 29s., April, 1860	3097 Yarner (copper), Devon 2 0 6 2 June, I k Exchange. Those mines with [L.] appended have been incorporated with Liability.
1861 1858 1860		and the person to old up by Conventing any alterations of correct
1860 1850	tion which may, from time to time, come under their notice. To sha information. Reports from mines—in fact, mining intelligence of eve	ry description, forwarded to our office, will meet ready attention.
1861 mid.	London: Printed by RICHARD MIDDLETON, and published by HENRY Exclusions are requested to	on (the proprietors), at their office, No. 26, Flaur Street, where all commu- be addressed,—September 7, 1861.

Anne	Mass	P.	44	7.	and Day	Bus day		=
4are 5000	N.Nant-y-Mwyn(id.),[L.10s.]	0	5 ()	68	DW4. 401	Jan.	Cull,
1000	North Rosewarne, Gwinear N. Trelether(sil.,cp.), Padstow	0	0 0	14	s. 6d		Dec.	1861
848	N. Treskerby (cop.), St. Agnes 1	0	32 0		23	23 25	Feb.	1860
1004	N. Treskerby (cop.), St. Agnes 1 N. Wh. Basset (cop., tin)[S.E.] North Wheal Busy (cop., &c.)	11	17 0		4% 5	% 6¾	Aug.	1861
1122	North Wheal Crofty [S.E.]	9 1	LOS U		6145	16 616	Sept.	1861
0000	N. Wh. Exmouth (cop., lead) North Wheal Prospidnick	3	7 0			-	andniv	1861
5000	N. Wh. Providence (tin, cop.)	0 1	12 6		1%		Nov. May,	1861
8144	N. Wh. Robert, Samp. Spiney	2 1	0 6	11.	31	2s. 14s	and HIT.	1861
1108 5900	North Wheal Trelawny (lead) North Wheal Vor(tin), Breage	3	0 (74		July,	1961
6000	N. Wrey (ld.), St. Ive [L.£2]. Okel Tor (lead), Calstock	0 1	12 ()	136		July.	1861
600	Uld Tolgus United (con.) Redr. 4	11 1	LB t	B	12		Sent.	1860
900	Pant-y-Buarth (id.) [L. £10]. Pant-y-Pwydu(id.),Flintshire! Pedn-an-dres United (tin)	6	0 (0	20		Aug.	1861
8465	Pedn-an-dres United (tin)	3	20 6		34		Sept.	1861
3200 2000	Pelyn Wood (cop.), Lostwithiel	2	7 (3	- ½···		Mar. May, May,	1861
5000	Pelyn Wood (cop.), Lostwithiel Pencraig United (ld.) [L. £1]. Pendeen Consols, St. Just	3	12 (4%	8 814	* * 4 U.Z.	1861
512	Pengenna (ld., sll.), St. Kew. Penhaldarva (lead) Penhald Moor (tin, copper). Penhald Moor (tin, copper).	16	0 (3	15		May,	1861
800	Penhale Moor (tin, copper)	4	0 (5		July,	1861
			90		48		Jan.	Lane I
0000	Penhauger (lead), Menheniot. Penralt Jead), Merioneth Pentre Lygan (lead) [L. £30] ? Polgear Mines, Wendron	3	0.4		214			
1000	Polgear Mines, Wendron	0 1	0 6		34	34	Mar.	1861
			0 0		1%		phiy,	1861
6400	Pract Consols (tin), Lelant Price of Wood (tin, cop.) Polonier (tin); St. Agnes Prosper Uni. (tin,cp.), St. Hilary	3 1	12 (168		Car.	1861
812	Programulation on) St Hillary	8	00		1%		· · Aug.	1880
1100	neumoor (cop., un), Camingum	U			48		July,	1861
2500	Releath (tin, cop.), Crowan Rhoswydol and Bachelddon	1 2	00		214		Oct.	1860
3000	Rhyscog (silver-lead) [L. £5]	1	0 (0	1		Mar.	1861
0000	Rhyscog (silver-lead) [L. £5] Ribden (lead), Alton [L.] River Tamar Copper [L.]	1	0 0	0	1%		Patte.	
8000	ROSEWALI HIHAZ Kansom Utd.	2	16 (14.	228. 248	Fully	paid. 1861
4096 5000	Rosewarne Consols (copper) Round Hill (cop., ld.), Salop	3	5	6	86.		· · · · · · · · · · · · · · · · · · ·	1991
2000	Scorrier Con. (tin,cp.),St. Agnes	2	10	0	2	1% 1%	Mar. Sept.	1861
aoo	Silver Bank (silld.) [L.£1]	0	13 (0	34		July,	1861
100	Silver Rake (lead) [L. £20] Silv.Vein, St. Winnow [L. £1] Smith's Wood (tin,cp.) [L. £2]	5	0 (0	20		Jan.	1861
6000	Smith's Wood (tin.ep.) [L.£2]	0	2	0	214		April,	1860
200	South Basset (cop.), Gwennap	12	0 1	8	14	12 14	June,	1861
6400	So. Buller & W. Penstruthal.	0	12 (0	114	,	May,	1860
4096 6000	So. Buller & W. Penstruthal. S. Caradon Wh. Hooper (cop.) So. Carn Brea (cop.) [S.E.] S. Condurrow (tin,cp.), Camb.	2 5	8 (8	1	1 1%	July,	1861
6138	S. Condurrow (tin, cp.), Camb.	i	19 (0	118	2% 3	July,	1861
2283	Sou. Crenver (cop.), Crowan. South Darren (ld.) [L. £3½] S. Dev. Iron & Gen. Min. [L.£1 South Ding Bong, Gulval	9	13 (6	314		Oct. May,	1860
5000	S. Dev. Iron & Gen. Min. [L. £1)(s	E.	1	%		Fully	1861 paid.
1024 8000	South Ding Bong, Gulval S.Dolcoath & Carnarthen Con.	0	10	0	×		Aug.	1800
6000	South Gernick (tin), Crowan.	ő	2 (6	%		June,	1861
$\frac{1000}{1024}$	South Goriand So. Herodsfoot (ld.), Liskeard	6	10	6	6		July,	1861
6000	South Lady Bertha (copper)	1	1	6	%		Aug.	1861
4000 5587	South Minera [L. £5¼] So. Phonix (cop.) Linkin	4	10	0	134		July,	1861 1859
1024	South Tresavean, Gwennap	2	11	6	1%		July,	1851
$\frac{4096}{1105}$	S. Wh. Betsy, Mary Tavy, Dv. So. Wh. Crofty (cop.), Illogan	1 2	18	10.	4 ::		June,	1881
1024	So.Wh. Crofty (cop.), Illogan S. Wh. Ellen (cp.), St. Agnes South Wh. Kitty (tin), Lelant	9	18	2	1		Aug.	1861
1024	5. Wh. Lovell (tin), Wendron	i	4 (6	21/2		May,	1861
		0	3	0			Aug.	1861
794	So.Wh.Seton(cop.),Camborne Spearne Cons. (tin), St. Just. St. Aubyn and Grylls (cp.,tin)	6	13	0	314		Aug.	1861 1860
970 5208	St. Aubyn and Grylls (cp.,tin)	3	14	6	112		Aug.	1880
1024	St. Ives Wheal Allen (tin)	6	0	0	6	5 6	July,	1858
1000	Stencoose and Mawia (tin,cp.)	20	10	A	9714	97 99	July.	1861
5000	Tavy Con. (cop.), near Tavis.	5	12	6	112	41 29	July,	1861
9000	Tees Side (id.), Camb.[L.£1] Tolcarne (cop.), Camborne	1	13	6		3% 3%	Aug.	1861
2000	Treffry Consols	ō	5	0		A 0%	June,	1861 1861
2000 8000	Treffry Consols Trefulack Uni.(tin), St. Enoder Tregardock (lead), St. Teath .	0	15 12	0	14		July,	1861
5000	Treloweth (copper), St. Erth.	5	18	8	334	3 31%	April	1860
1024 5000	Trencrom (tin), Uny Lelant. Tresellyn and Scaddick Cons.	10	5	6	_%		June,	1861
8000	Tretoil (copper, tin)	2	7	6	116		Jan.	1861
1024	Trevenen and Tremenheere . Trevoole, Crowan, Cornwall .	5 22	13 13	2	4		July,	1861
4096	Treweatha (silld.), Menhen.	4	8	6	14		Sept.	1861
4000	Treworlis, Wendron Trumpet Unit. (tin), Wendron	3	13	6	56		Mar.	1859
3000	Trumpet Unit. (tin), Wendron Tyne Head (ld., cop.) [L. £1]. Tynewydd(silld.), Cardigan.	0	12	0	%		Sept.	1860
1024	Tyringham Consols (tin)	ĭ	10	0	234		July,	1860
1250	Tyringham Consols (tin) United Mines (cp., &c.), Tav. Vale of Ffrith (lead) [L. £2].	0	9 5	6	11/2	1% 1%	May,	1861
1000	waenias(id.),Denbigh. L.£10	18	0	0	5		Aug.	185
3000 4000	Watermouth Gt. SilLead [L.] Wentnor [L. £21/6]	1	13	0	1%		Fully	paid 1861
1024	W. Alfred (copper), Phillack,	36	16	5	30 ::		Sept.	186
1218	W.Condurrow(tin.cop.), Cam.	4	17	2	5		Jan.	186
16	West Denbigh (Id.), Denbigh.	35	0	0			Oct.	186
4620	W. Great Work (tin), Germos	0	8	0	118		Mar.	1861
6000	west rar con. (cp.) St. Blazey	1	8	6	14		Sept. Feb.	186
1600	W. Rose Down (cop.), Caradon	3	0	0	23	17 19	Aug. Sept.	186
256 5000	West Sharp Tor(cp.) Rillaton.1	31	0	0	114	-	Sept.	186
4096			14	0	254		May,	186
1056	West Tolcarne (cop.), Camb.	7	15	6	4/2	o% 4%	April	186
512	West Tolgus (cop.), Redruth.	18	0	0			April	186
1879 4000	weer wendron (nn), wendron	8	13	0	138		July,	18
512	West Wheal Frances, Illogan	63	15	0	14	12 14	April	18
1024	West Wheel Lovell Wendron	3	0	6	1		Aug.	18
3000 6000	W.Wh.Margaret(tin),UnyLel	. 2	16	0		24	July,	18
2048	Wheal Agar (copper), Iliogan Wh. Agnes (silvld), St. Kew		_		2		No ci	all.
1024 500	Wh. Anna (ld., blende), Perranz	. 0	8	6	36		Feb.	18
5000		0	15	0	4		No ce	
1000	Wh. Arthur (cop.), Calstock.	3	11	0	88	% %	Jane	, 18
8000	Wh. Concord(silid.,cp.) L.£	170	- 5	0			Mar.	18
8000	Wheal Conquer (tin, copper).	1	0	0	114	90. 11	Sept.	18
5120			16	0	1%		Inna	I
512 4000	Wh.Damsel(cp.,tin),Gwennap	28	13	6	15	3.3	Jahr.	9
4096	Wheal Emma (tin), Breage.,	0	10	0	· %	90	Aug.	11
6000 5120	Wheal Harriett, Camborne	4	6	0	348	308. 32	Aug.	1
6000	Wh. Harris (id., cop.), Lifton	U	10	6.,	1216.	133	Feb.	1
1024 2048	Wheal Hope (silld.), Perran	8		6		1 1%	Aug.	1
100	Wh. Lopes (tin, zinc) [L. £1].	10	10	0		- 11	Feb.	11
200	cop. /, mourall.	-0			.130		4	-1

yscog (silver-lead) [L. 25]		v		1 .			M
bden (lead), Alton [L.] 1	1	0 0		1%.			F
ver Tamar Copper [L.]	1	0 0		1 .			F
sewall Hill & Ransom Utd.	2 1	6 0		114.	,228,	24.	. M
sewarne Consols (copper)		5 0		5			A
				56			M
orrier Con.(tin,cp.),St. Agnes	2 1	0 0		2	.11%	154	86
	0 1			i .	/8	*78	Ju
				34.			00
ver Rake (lead) [L. £20]							Ja
	0	5 0		214.	•		
	1	2 (2	•		A
uth Basset (cop.), Gwennap 1					. 12	14	
						14	A
				114.			**
Caradon Wh. Hooper (cop.)						12	M
. Carn Brea (cop.) [S.E.]		5 0		24	. 1	78	
Condurrow (tin, cp.), Camb.	٠,	9 0	•••	118.	. 27	. 8	Ju
		9 4		91/	•		Jt
u. Crenver (cop.), Crowan.	0 1	7 6		314.			00
uth Darren (ld.) [L. £314]	2	1 1		11/4.			M

1004	Pract Consols (tin), Lelant	3	13	3	212		100
6400	Printer Wood (tip con)	3	10	0	168		COMPA
819	Primary Wood (tin, cop.)	8	-0	0	12		Also,
8000f	Posper Uni. (tin.cp.), St. Hilary	2	0				Aug.
9000	Prosper Chi. (tin,cp.),St. Hilary	3	0	0	1%		July.
11189	Redmoor (cop., tin), Callington	0	8	0	48		May,
6000	Releath (tin, cop.), Crowan	1	0	0	214		Oct.
2500		12	0	0	754		**
3000	Rhyscog (silver-lead) [L. £5]	1	0	0	1		Mar.
20000	Ribden (lead), Alton [L.]	-1	0	0	134		Fully
10000	Ribden (lead), Alton [L.] River Tamar Copper [L.]	ī	0	0	1		Patty
6000	Rosewall Hill & Ransom Utd.	9	10	0	11/ 0	0- 04-	Fully
4006	Posewarra Consola (conner)	-	5	0	1702	2s. 24s.	
4000	Rosewarne Consols (copper)	0	0	0	0		Aug.
0000	Round Hill (cop., ld.), Salop	3		6	78		Mar.
2000	Scorrier Con.(tin,cp.),St. Agnes	1 2	10	0	21	15%	Sept.
10000	Sigford Con. (cop.,tin)[L.£1]	0	13	0	1		July,
1 2000	Silver Bank (sil. ald.) [L. £1]	0	15	0	34		Oct.
100	Silver Rake (lead) [L. £20] Silv. Vein, St. Winnow [L. £1]	5	0	0	20		Jan.
15000	Silv. Vein. St. Winnow [L. £1]	0	5	0	214		
6000	Smith's Wood (tin,ep.) [L.£2]	1	2	0	9.4.		April,
519	South Besset (con) (Swenner	12		0	17	10 14	June,
	South Basset (cop.), Gwennap	- 2		8	14	12 14	Ang.
2400	South Bryn Gwiog	9	0	0	24		**
8400	So. Buller & W. Penstruthal.	U	13	0	1%	,	May,
4096	S. Caradon Wh. Hooper (cop.)	2	8	6	1 1	1 1%	July,
6000	So. Carn Brea (cop.) [S.E.]	5	5	0	234 5	3 %	July,
6138	S.Condurrow (tin. cp.), Camb.	1	19	0	118		June,
2283	So. Buller & W. Penstruthal. S. Caradon Wh. Hooper (cop.) So. Carn Brea (cop.) [S.E.] S. Condurrow (tin, ep.), Camb. Sout. Crenver (cop.), Crowan. South Darren (id.), L. £3½] S. Dev. Iron & Gen. Min. [L. £1 South Dares Dong. Guide.		13	6	344		Oat.
6000	South Darren (ld) (I. 4314)	9	7	6	112		.Oct.
#5000	S Dow Tron to Con Win IT 41	30	0 10	1	-77		May,
1004	Santh Dian & Gen. Min. L. &	J.	3.5	Ĭ	78		Fully
		- 30			. %		Aug.
	S. Dolcoath & Carnarthen Con.	2	4	0	4		June.
6000	South Gernick (tin), Crowan.	0	2	6	%		Oct.
1000	South Gorland	6	10	0	6		July,
1024	So. Herodsfoot (ld.), Liskeard	1	2	6	216		Aug.
6000	South Lady Bertha (copper)	ī	1	6	%		Inne
4000	South Minera [L. £514]	2	â	0	478		June,
5587	So Thereis (see) Linkin	4	10	Ď	12/		July,
			10	0	- 79		Jan.
1024	South Tresavean, Gwennap	2	11	6	178.0		July,
4096	S. Wh. Betsy, Mary Tavy, Dv.	1	4	6	1		June,
1105	So. Wh. Crofty (cop.), Illogan	2	18	10.	4		May,
1024	S. Wh. Ellen (cp.), St. Agnes	9	18	2	1		Aug.
1000	South Wh. Kitty (tin), Lelant	1	0	0	134		May,
1024	S. Wh. Lovell (tin), Wendron	1	4	6	214		Toler.
6000	S. Wh. Margaret(tin), Ludgvan	0	3	0	-/		July,
	So.Wh.Seton(cop.),Camborne		19	0	10		Aug.
		30	10	0	10		Aug.
794	Spearne Cons. (tin), St. Just.	- 6		0	374		Mar.
970	St. Aubyn and Grylls (cp.,tin)	7	14	6	2/4		Aug.
5208	St. Austell Consols (tin, &c.)	8	16	0	1%		Dec.
	St. Ives Wheal Allen (tin)	6		0	6	5 6	July,
1000	Stencoose and Mawla (tin,cp.)	2	10	0	2		July,
	Stray Park (cop., tin) [S.E.].	26	15	0	2714 !	27 29	July,
5000	Tavy Con. (cop.), near Tavis.	5	19	6	14		Your,
9000	Tees Side (ld.), Camb.[L.£1]	0	19	0	- 12		June,
2000	Tologram (con) Combonno	ĭ	10		24	14 004	Aug.
9000	Tolcarne (cop.), Camborne		*	6	343	14 334	Aug.
2000	Treffry Consols	0	. 0	0			June,
2000	Trefulack Uni.(tin), St. Enode	3	10	0	3		July,
	Tregardock (lead), St. Teath.	0	13	0	114		ADYII.
5000	Treloweth (copper), St. Erth.	5	18	8	334	3 31%	Dec.
	Trencrom (tin), Uny Lelant.	10	5	0	56	-/8	June,
5000	Tresellyn and Scaddick Cons.	1	5	6			Mar.
9000	Tretoil (copper, tin)	2	7	6	134		Ton.
8,000	Trevener and Tremenhaure				2/3		Jan.
	Trevenen and Tremenheere .	5	10	0	21/2		July,
	Trevoole, Crowan, Cornwall.	22	13	2	4		Sept.
4096	Treweatha (silld.), Menhen.	4	8	6	14.0		June,
2048	Treworlis, Wendron Trumpet Unit. (tin), Wendron	3	6	4	2		Mar.
4000	Trumpet Unit. (tin), Wendron	0	13	6	56		July,
3000	Tyne Head (ld., cop.) [L. £1].	0	12	0	3/		Sept.
400	Tynewydd(silld.),Cardigan.	0	1 5	0	-		July,
1094	Tyringham Consols (tin)	1	10	0	93/		
8000	United Mines (on free)	1	10		:77.	1/ 19/	Feb.
3000	United Mines (cp., &c.), Tav.	4	1	6	1741	76 1%	May,
1250	Vale of Ffrith (lead) [L. £2].	0	5	0			April
1000	Waenlas(ld.), Denbigh.[L.£10]8	0	0	5		Aug.
3000	Watermouth Gt. SilLead [L.] 8	0	0	6		Fully
4000	Wentnor [L. £216]	1	13	0	1%		July,
1024	W. Alfred (conner), Phillack	30	16	5	-		Sept.
100	W. Alfred (copper), Phillack. W. Bryn Gwlog (ld.) [L. £20]	3	0	0	30		.Jan.
		- 0			40 88		o o o maile

"	Loientile (cop.), Camborne I a d.e	07607
ю	Treffry Consols 0 5 0	
00	Trefulack Uni.(tin), St. Enoder 2 15 0	3
90	Tregardock (lead), St. Teath. 0 12 0	14
00	Treloweth (copper), St. Erth. 5 18 8	334 3
24	Trencrom (tin), Uny Lelant. 10 5 0	%
00	Tresellyn and Scaddick Cons. 1 5 6	
00	Tretoil (copper, tin) 2 7 6	136
00	Trevenen and Tremenheere . 5 13 0	912
94	Trevoole, Crowan, Cornwall. 22 13 2	4
36	Treweatha (silld.), Menhen. 4 8 6	14
18	Treworlis, Wendron 3 6 4	9,8
00	Trumpet Unit. (tin), Wendron 0 13 6	54
00	Tyne Head (ld., cop.) [L. £1]. 0 12 0	29
00		78
94	Tynewydd(silld.),Cardigan. 0 5 0	234
39	Tyringham Consols (tin) 1 10 0	
UU # ()	United Mines (cp., &c.), Tav. 4 9 6	
00	Vale of Ffrith (lead) [L. £2]. 0 50	11/2
00	Waenlas(ld.), Denbigh. [L.£10] 8 0 0	5
OO	Watermouth Gt. SilLead [L.] 5 0 0	6
00	Wentnor [L. £21/6] 1 13 0 W. Alfred (copper), Phillack. 36 16 5	1%
24	W. Alfred (copper), Phillack. 36 16 5	
00	W. Bryn Gwlog (ld.) [L. £20] 5 0 0	30
	W.Condurrow(tin,cop.),Cam. 4 17 2	5
16		
00	W. Devon Con. (cop.),[L.£1] 0 10 0	1/200
20	W. Great Work (tin), Germos 0 8 0	
00	West Par Con. (cp.) St. Blazey 1 8 6	16
00	W.Polmear(tin,cp.),St.Austell 0 10 0	1
00		23 1
56	West Sharp Tor(cp.) Rillaton. 131 0 0	
00	W. Snailbeach (lead) [L. £2] 1 00	114
96	West South Caradon (copper). 1 14 0	254
56	WestStray Park(cop.), Camb. 7 15 0	41433
00	West Tolcarne (cop.), Crowan 1 11 6	%
12		
79	West Trevelyan (tin, copper) 8 8 0	314
00	West Wendron (tin), Wendron 0 13 0	13s
12		14 1
00	West Wheal Jane (tin, &c.) 2 16 6	34
24		1
00		
00	Wheal Agar (copper), Illogan 3 6 0	4
18		2
24	Wh. Anna (ld., blende), Perranz, 0 86	36
00	Wheal Anne (tin), St. Austell 1 1 0	114
00		\$4
90	Wh. Arthur (cop.), Calstock. 3 11 0	88 3
00	Wheal Basset and Grylls (tin) 4 0 0	814
00	Wh. Concord(silid.,cp.)[L.£1]0 5 0	
00	Wheal Conquer (tin, copper). 1 00	114
00	Wheai Crebor (cop.), Tavistock 0 15 0	
	Wheal Cupid (cop.), Redruth, 3 16 0	
19	Wh. Damsel(cn.,tin), Gwennan 98 18 6	15

000	Watermouth Gt. SilLead [L.] 5
000	Wentnor [L. £216] 1
024	W. Alfred (copper), Phillack, 36
100	W. Bryn Gwiog (id.) [L. £20] 5
218	W.Condurrow(tin,cop.),Cam. 4
16	West Denbigh (ld.), Denbigh, 35
000	W. Devon Con. (cop.),[L.£1] 0
620	W. Great Work (tin), Germos 0
000	West Par Con. (cp.) St. Blazey 1
000	W.Polmear(tin,cp.),St.Austell 0
600	W. Rose Down (cop.), Caradon 3
256	West Sharp Tor(cp.) Rillaton. 131

	west Tolgus (cop.), Redruth.	19	
879	West Trevelyan (tin, copper)	8	
000	West Wendron (tin), Wendron	0	
512	West Wheal Frances, Illogan	63	
000	West Wheal Jane (tin, &c.)	2	
024	West Wheal Lovell, Wendron,	2	
000	W.Wh.Margaret(tin), UnyLel.	2	
000	Wheal Agar (copper), Illogan	3	
048	Wh. Agnes (silvld), St. Kew		
024	Wh. Anna (ld., blende), Perranz,	. 0	
500	Wheal Anne (tin), St. Austell	1	
000	Wheal Annie (cop.), Gwinear	0	
990	Wh. Arthur (cop.), Calstock.	3	١
	Wheal Basset and Grylls (tin)	4	
000	Wh. Concord(silld.,cp.)[L.£]	170	
	Wheal Conquer (tin, copper).	1	
000	Wheal Crebor (cop.), Tavistock	0	
100	Wheel Church (con) Dedwith		

b120	Wheal Cupid (cop.), Redruth.	1
512	Wh.Damsel(cp.,tin),Gwennap	2
4000	Wh. Emma(cp) Buckfastleigh	1
4096	Wheal Emma (tin), Breage	1
6000	Wh.Grenville (copper)[8.E.]	1
5120	Wheal Harriett, Camborne	4
6000	Wh. Harris (id., cop.), Lifton	1
	Wheal Hearle, St. Just	1
2048	Wheal Hope (silld.), Perran	1
0000	Wh. Lopes (tin, zinc) [L. £1].	1
100	Wheal Louisa (cop.), Redruth.	1
5640	Wh. Mary Emma(tin) Lydford	1
	Wheal Moyle, Gwennap	
RADA	When! Nelson	

5640	Wh. Mary Emma(tin) Lydford	1
6000	Wheal Moyle, Gwennap	
0000	Wheal Nelson	
6000	Wh. Norris (tin, cp.), St. Cleer	1
256	Wheal Polmear, St. Austell	1
2315	Wh. Pollard (cop.), St. Neot's	1
1000	Wh. Prosper (cp., tin), Breage	-
1879	Wheal Prospidnick	
240	Wh. Reeth (tin), Uny Lelant	6
600	Wheal Rose (ld.), St. Columb	1
1024	Wh. Sicily(sil,-id.), Broadoak	
4096	Wheal Sidney(tin), Plympton	1
	Wh. Sithney & Carnmeal Uni.	
	9973	

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